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INDEX

TO THE

EXECUTIVE DOCUMENTS

OF THE

HOUSE OF REPRESENTATIVES

FOR THE

THIRD SESSION OF THE FORTY-SIXTH CONGRESS,

1880-'81.

IN 30 VOLUMES.

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46TH CONGRESS, 3d Session. } HOUSE OF REPRESENTATIVES. { Ex. Doc. 1, Part 6.

ANNUAL REPORT

OF THE

COMMISSIONERS

OF THE

DISTRICT OF COLUMBIA

FOR

THE YEAR ENDING JUNE 30, 1880.

WASHINGTON:
GOVERNMENT PRINTING OFFICE.
1880.

ANNUAL REPORT

OF THE

COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE COMMISSIONERS
OF THE DISTRICT OF COLUMBIA,
Washington, November 26, 1880.

To the PRESIDENT:

The receipts into the treasury of the District of Columbia from all sources for the year ending June 30, 1880, were as follows:

Balance on hand July 1, 1879 (including trust and water funds)	$257,618 47	
		$257,618 47
Taxes and revenues for general expenses	1,620,130 02	
Appropriations by Congress for general expenses	1,671,490 71	
		3,291,620 73
Water rents and taxes	196,382 41	
Trust funds	29,879 19	
Refunds to various appropriations	29,790 55	
		256,052 15
Special appropriations by Congress for filling canal	20,000 00	
For penny lunch	1,500 00	
		21,500 00
Total receipts		3,826,791 35

The expenditures for the year ending June 30, 1880, under the various heads for which estimates are by law required to be made annually, amounted to $3,300,485.61, viz:

Replacing wood pavements	$199,779 39	
Repairs and improvement of streets	197,491 19	
Construction of main and lateral sewers	117,303 66	
Repair and cleaning Tiber sewer	13,795 81	
Permit work	13,527 24	
Construction and repair of bridges	10,294 77	
Washington Aqueduct, 1880	20,000 00	
Washington Aqueduct, 1879	15,000 00	
Charities, reformatories, &c.	168,166 35	
Interest and sinking-fund	1,155,583 55	
Public schools (current expenses)	392,969 26	
Erection of new school buildings	45,598 16	
Metropolitan police	301,926 25	
Fire department	109,659 38	
Health department	24,850 02	
Police court	14,691 24	
Engineer's department	91,081 93	
Lighting streets	125,539 32	
Workingmen of contractors	21,323 71	
Other expenses, general and miscellaneous, including salaries, contingencies, judicial expenses, judgments, markets, removal of garbage, parking, sweeping and cleaning streets and avenues, cleaning alleys, repairs to pumps, rent of District offices, printing and advertising, &c	261,904 38	
		$3,300,485 61

Water department (including $74,025 for interest and sinking-fund on water stock)	$169,575 65	
Trust funds	30,754 04	
Filling canal, special appropriation by Congress	20,245 23	
Food, medicine, and medical attendance to poor, special appropriation by Congress	1,607 37	
Penny lunch, special appropriation by Congress	1,200 00	
		$223,382 29
Balance ou hand July, including trust and water funds		302,923 45
Total		3,826,791 35

Balance on hand July 1, 1880, as above stated, is—	
For general expenses	261,714 76
For water fund	30,103 48
For trust funds	11,105 21
Total balance	302,923 45

The amount collected for water fund ($196,382.41) includes collections for the half-year ending December 31, 1879, $31,800.87 of which was refunded, under a decision of the supreme court, D. C., that these collections were illegal.

This exhibit shows gratifying increase, as compared with the preceding year, in the cash receipts from taxes and other local sources of revenue. It does not include, however, the sum of $192,227.06 received for general taxes in drawback certificates under the third section of act of Congress approved on June 27, 1879. This sum, the Commissioners think, should be accounted as part of the revenues of the District of Columbia, and credited as such on the books of the United States Treasury, under the proviso to the second section of act approved June 4, 1880, making appropriations for the District of Columbia for the year ending June 30, 1881.

ARREARS OF GENERAL TAXES.

The arrears of general taxes to October 1, 1880, were as follows:

On real estate	$991,666 02
On personal property	202,617 04
Total arrears on October 1, 1880	1,194,283 06

Of this sum, however, a large amount, which has been carried on the books for many years, is disputed, and the Commissioners, therefore, ask authority to inquire into such disputed claims and to settle them on their merits.

ASSESSMENTS.

The Commissioners venture to renew their recommendation for the appointment of a permanent board of review for the correction and equalization of assessments for general taxes. Such tribunals exist in other cities, and have yielded very satisfactory results.

The revision of special assessments required by the acts of June 19, 1878, and June 27, 1879, but which was interrupted and delayed by the investigation ordered by the House of Representatives during the last session of Congress, is still in progress. It will be completed by January 1, 1881, and will be made the subject of a special report.

BONDED DEBT.

The bonded debt of the District of Columbia, under the intelligent and judicious management of the Treasurer of the United States, *ex officio* commissioner of the District sinking-fund, is being gradually reduced. We recommend that larger discretion be given to that officer,

as requested by the Secretary of the Treasury in his last annual report, in the selection of bonds for redemption, so that those bearing the highest rates of interest may, when practicable, be first redeemed. We also think it would be wise policy to unify the entire debt of the District by consolidating it, as speedily as may be, in 3.65 bonds, in which form much the larger portion now exists. These bonds being now at par, there seems to be no formidable obstacle to the early accomplishment of such conversion.

DAMAGES TO REAL ESTATE.

A large number of claims for damages to real estate growing out of improvements made by the late board of public works and their successors, which were never brought before the board of audit, or never acted on by that tribunal, are being pressed on the attention of the Commissioners. No doubt many of them are meritorious, but the Commissioners are advised that they have no power under existing law to deal with this subject. We therefore respectfully commend it to the attention of Congress.

PUBLIC SCHOOLS.

The two additional school-houses provided for in the appropriations made by Congress for the year ending June 30, 1880, were completed and furnished in time to be occupied at the commencement of the present school year. They contain twelve school-rooms each, of sufficient capacity to seat sixty pupils, or an aggregate capacity for the accommodation of about 1,500 pupils. They are substantial and durable buildings, complete and convenient in all their appointments and arrangements, thoroughly lighted, heated, and ventilated according to the most approved methods, and have cost in the aggregate, exclusive of grounds and furniture, the sum of $74,351.49. Four other buildings, two of same capacity as those above described, and two smaller buildings located in the county, are now in course of erection, and will be ready for occupation at the commencement of the next school year. These erections will of course contribute largely to the facilities and comforts of the public schools of this District, and will considerably diminish the large sum now paid for rent of unhealthy and unsuitable rooms; but many more such additions must be made before complete relief is obtained.

The Commissioners, therefore, cheerfully unite with the trustees in recommending again to Congress the appropriation to this object of the school fund of $70,630.49, now invested in 3.65 bonds of the District of Columbia, together with the sum of $20,134.72 in board of audit certificates, now held by the District and fundable in the same class of bonds under section 3 of the "act to provide for the settlement of claims against the District of Columbia, &c.," approved June 16, 1880.

At the request of the board of school trustees one of the school-houses now being erected has been located on the unoccupied north half of square 446, originally purchased for a market. The disposition of the south half of this square is now under consideration by Congressional Committees on the District of Columbia.

For details relating to the interests of the public schools the Commissioners refer to the complete and concise report of the school board, appended hereto.

WASHINGTON ASYLUM.

The south wing of the new work-house provided for in the act making appropriations for the District of Columbia for year ending June 30, 1881, has been completed; but the appropriation ($10,000) proved in-

sufficient to furnish and fit it for occupancy. The injustice of compelling the worthy poor to live under the same roof with the female convicts now necessarily confined in the almshouse, must, therefore, continue until relief be given by Congress.

During the past year there have been other important improvements and additions to the accommodations of the asylum. The almshouse has been thoroughly repaired, cleansed, and ventilated; new kitchens and laundries, with approved steam-apparatus, bath-rooms and closets, an abundant supply of hot and cold water for all parts of the building, and ample sewerage, have been provided. A sleeping-room, bath-room, and dining-room, for the accommodation of the resident physician and student, have also been added to the hospital dispensary, and gas introduced into the dispensary and into the dwelling of the commissioner and intendant.

Great improvements have been made also in the grounds of the asylum by judicious drainage and grading, construction of roads, proper development and utilization of springs for the constant and abundant supply with running water of the stables and cattle-yards; and considerable additions have thus been made to their cultivable area. All this has been accomplished, too, out of the appropriation for current expenses.

But the most important and valuable acquisition for the asylum is the addition to its grounds and buildings of the old Army and Navy magazine, which, under authority of the act of June 16, 1880, making appropriations for sundry civil expenses of the government, has been surrendered to the District for the use of the asylum. This property comprises from twenty to thirty acres of valuable land, with five large brick magazines, three brick dwellings, one large shell-house, out-houses, and a substantial wharf on the Eastern Branch of the Potomac. The magazines can, at small expense, be utilized for schools and dormitories for the instruction and reformation of the young inmates of both sexes, and for work-shops, in which the youth may be educated in useful industries, and the skilled labor of the asylum and of the United States jail, which adjoins it, find profitable employment.

All that is required to complete the facilities of the asylum for the accomplishment of its beneficent work is the acquisition of a farm of about three hundred acres, as recommended in our last annual report, where the vagrants who infest our streets and the unskilled labor of the asylum can be usefully employed. This can now be accomplished at a cost of not exceeding $50,000, and we, therefore, again earnestly commend the subject to the attention of Congress, as an important measure of reform and economy.

For more detailed information as to the condition, management, and wants of this valuable institution, reference is made to the very intelligent and satisfactory report of the commissioner and intendant.

CHARITIES.

Besides the Washington Asylum, the Reform School for Boys and the Columbia Hospital for Women and Lying-in Asylum, although managed by independent boards, are public institutions of the District of Columbia. They are owned by the United States, and are now wholly supported from the District treasury. It was provided, however, in the act of June 4, 1880, making appropriations for the District, that the Commissioners should be represented by one of their body in each of these boards, and have the right to visit and inspect all other institutions

receiving aid from the District treasury. This provision has been carried into effect, and the visitations made by the Commissioners to the several private institutions thus assisted have satisfied them that the appropriations by Congress have been judiciously and beneficially expended.

The policy thus adopted of stimulating and fostering private beneficence by legislative aid, is, perhaps, the most economical and effective method of public eleemosynary benevolence; and we, therefore, recommend the continuance of this policy.

The Commissioners also repeat the recommendation made in their last annual report for the appointment of a board of charities, with authority to visit, inspect, and supervise all charitable, reformatory, and penal institutions supported in whole or in part by the District of Columbia; and under whose supervision also all appropriations for the relief of the poor may be expended. It is impossible for the Commissioners, with their other imperative and engrossing duties, to give the attention to this subject which its importance demands. The appointment of such a board would also, they think, tend to harmonize and concentrate in more stable and effective methods the benevolent forces of the community, which are now greatly impaired by unnecessary divisions and rivalries. Our institutions are numerous but generally feeble and unstable.

The Industrial Home School, although managed by a private board of trustees, is now substantially a public institution of the District of Columbia. It is located on a valuable site belonging to the District, formerly the Georgetown alms-house, and its object is the education of the destitute and friendless of both sexes in the necessary trades and industries. It was founded, and has heretofore been sustained mostly, by private benevolence, but it now appeals for public aid to sustain its increasing cost and usefulness. We cannot too strongly commend its claims to the generous consideration of Congress.

We also commend to favorable attention the project which will be submitted to Congress for the establishment of a general hospital, now greatly needed in this District.

RAILROAD STATIONS.

The Commissioners again respectfully, but earnestly, invoke speedy action by Congress on the all-important subject of steam-railroad stations. So long as one of these stations is permitted to obstruct the extension and improvement of streets at the very doors of the Capitol, and another is allowed to sever and destroy for free public use the magnificent park and boulevard which connects the Capitol and Executive mansion, the growth and adornment of the Federal Capital must be seriously if not fatally impeded.

In this connection we recommend that all steam-roads be required, when practicable, to enter the city on grades below the grades of the streets, so as not to interfere with street traffic.

The Commissioners respectfully call the attention of Congress to the public nuisance caused by the number of small slaughtering establishments existing around the city and in the immediate vicinity of some of the most frequented roads. With the growth of every town the time arrives when business of this character must be subjected to the wholesome restraint of law. It is thought that it is high time that the slaughtering of animals in the District should be confined to one or more selected localities, and placed under such supervision as may be necessary for the comfort and health of the public.

PARKING COMMISSION.

The operations of this commission, which has done so much for the adornment of the city, have always received the hearty approval of the Commissioners and the active support of the people of the District. Owing to its wise and disinterested care of the details of the work confided to it, the city is now adorned with 67,000 young and flourishing trees, which each year are adding to the beauty of the streets. With their growth the charge for care and maintenance must necessarily increase. With the present appropriation of $15,000 new trees can be planted only at the expense and neglect of those already growing. During the past year, however, three thousand were planted, covering a linear distance of about eight miles. The Commissioners have thought it for the best interest of the city to increase the appropriation for the coming year to $20,000.

TELEGRAPH LINES.

The lines of the six companies doing a general business in the city consist of 336 miles of single wire carried by 1,266 poles. Up to the present time, owing to the width of the streets and parking, and the relatively small amount of business done, no serious trouble has been found to arise from the planting of the poles in the public streets. The trees are now, however, reaching such a size as to require constant cutting and trimming in order to keep the branches from coming in contact with the wires. This is a difficulty which will be constantly increasing, and which will ultimately compel either the destruction of the trees or the use of underground lines. The companies naturally object to placing the wires under ground, as it involves a large though not excessive expense, while the public, with equally good reason, object to the planting of huge and unsightly poles in front of their residences and places of business. Though the occupation of the streets for any purpose may be regulated by the Commissioners, they are of the opinion that the rights and duties of the companies should be defined by law, and that by the same act a basis of taxation should be fixed. Under the present laws the companies make returns of personal property which are not regarded by the Commissioners as at all commensurate with the amount of the business transacted or with the privileges enjoyed.

As regards the use of underground lines, a careful and exhaustive examination has been made as to their practical operation abroad. It has been claimed that they are experimental and that their success is still doubtful. It is found that no such thing as a telegraph pole exists in the densely populated parts of London, Paris, and other great cities. In Paris alone 119 miles are in successful operation, and the total length of underground lines in Europe amounts to 1,016 miles. Some of these have been operated for fifteen years, and constant extensions are being made to the systems. These facts place the matter beyond the region of doubt or speculation, and the only question remaining is as to the cost. In Paris the cost of laying a line of 40 conductors in pipes is $6,470 per mile. Those laid in the sewers cost somewhat less. The estimated expense in this city, including all necessary repairs to pavements at the street crossings, cannot exceed $10,000 per mile. A length of ten miles would be ample for the needs of the city, so that the entire cost to the companies would not be more than $100,000. As there are certain streets and portions of the city in which poles may still properly be used, this estimate may for present purposes be very much reduced. The cost, then, being divided among several companies, is not so great as to stand in the way of immediate and positive legislation.

STREET IMPROVEMENTS.

On the 1st of July last the condition of the streets was as follows:

	Miles.
Concrete (asphalt and coal-tar)	40.66
Stone block	14.87
Rough stone	18.00
Macadam	7.45
Gravel	31.31
Wood	22.10
Unimproved streets	95.62
Total	230.01

From a careful examination of the records of the board of public works it appears that there were laid of wood pavements 1,188,597.47 yards, at a cost of $4,003,744.09, and covering a length of fifty miles. Much of this has now been replaced, so that on the 1st of July there remained 509,481 square yards. The present commission, during the two years ending June 30, 1880, has laid 278,370.38 yards of new pavement, at a total cost of $531,102.21. Of these pavements 171,985.43 yards are asphalt, 102,077.52 yards of granite blocks, and 4,307.43 yards of compressed asphalt blocks. Since the 1st of July 86,000 yards of paving have been placed under contract, of which about two-thirds has been completed. A large amount of wooden pavements has been taken up and the streets rolled down in gravel. By these means the total area of wood pavement has now been reduced to 385,000 square yards, extending over a distance of seventeen miles. The last of these rotten pavements will not be reached for two years. In addition to the above work a total length of three and a quarter miles of streets has been opened and improved during the past year.

COUNTY ROADS.

These roads, which in their present form can only be kept in tolerable condition by constant labor, should be gradually laid down in Macadam, with a summer or driving road on either side.

Roads so prepared and carefully rolled can be kept in good repair at a small cost. The principle is illustrated by the Seventh-street road, which is now in good condition for 9,600 feet beyond the boundary. The methods there employed should be gradually extended to all the principal roads in the District.

SEWERS.

Work upon the two main auxiliary sewers on New York avenue and Boundary street has progressed as rapidly as the circumstances would permit. The principle involved in the construction of these sewers has already been amply vindicated. By the partial opening of a canal to the main channel of the river from the foot of Seventeenth street, the sewerage which has heretofore lodged upon the flats has been carried into the river beyond the marshes. As the completion of this project will depend upon the special method which may be adopted in the reclamation of the flats, it would be premature to execute any work upon the canal in advance of the adoption of some final scheme for the improvement of the river front.

The work upon the Boundary-street sewer has been greatly delayed by the natural difficulties of the soil. The first section is now nearly completed, but no rapid progress can be expected until the junction is made with the existing sewer, after which operations may be commenced simultaneously at several points.

In the work upon the minor laterals in different parts of the city many substantial improvements have been introduced, and it may be said with confidence that from this class of construction no trouble is to be anticipated in the future.

WATER RATES.

Under the authority of the act of June 10, 1879, the Commissioners advanced the water rates of the city 20 per cent. upon those previously existing. This course was rendered necessary by the financial condition of the department at the time when it came under the control of the present board. The advances from the general fund on account of interest having now been repaid, the rates for the coming year, commencing upon the 1st of January, 1881, can be reduced 10 per cent. Amounts hereafter falling due on account of interest and sinking fund can be regularly met.

WATER SUPPLY.

The condition of the general water supply of the city is such as to require the immediate action of Congress. This question, which has been growing more and more pressing on account of the growth of the city and the largely increased consumption of water, has now reached that point when decisive action must be taken.

At one time some controversy arose as to the proper method of increasing the supply. The facts in the case are clearly set forth in detail in the annual report of the Commissioners for the year ending June 30, 1879, and in the report of the Senate Committee, No. 39, Forty-sixth Congress, second session. In the latter report the committee say:

> The committee recommends the completion of the Potomac dam and the extension of the conduit to the high ground north of the city, with the necessary main connections, as the best means of securing an abundant present and future supply of water to the cities of Washington and Georgetown. The quantity of water thus secured will be quite equal to all the necessities of the public departments, fountains, and people.
>
> * * * * * * *
>
> The Government of the United States undertook this great work of bringing "to the cities of Washington and Georgetown an unfailing and abundant supply of good and wholesome water." It has, at its own expense, constructed the works and laid a large portion of the principal mains which supply the two cities. But to complete the work, put it in condition for the government and the people to reap the full benefit of this great work, additional expenditures must be made. Believing there should be no divided ownership, interest, or control, but that the government should have the complete and absolute ownership and control of the dam, conduit, reservoirs, and principal mains, the committee recommends:
>
> That the expense of completing the dam, extending the conduit, and laying the connecting mains be paid by the United States, and that the authorities of the District be permitted, as heretofore, to lay such pipe as may be necessary to distribute the water to the people, and to erect such fountains as will supply the necessities of persons not able to have water brought into their houses.
>
> It is earnestly hoped that this recommendation, made after full and careful examination, will be adopted.
>
> The general sentiment, both of Congress and of the people, has thus far been strongly in favor of increasing the supply, rather than of resorting to meters or other methods of repressing the general and free use of water.

POTOMAC RIVER FRONT.

In their last report the Commissioners gave at considerable length their views in relation to the improvement of the river front, and the

proper method of reclaiming the marshes which now so injuriously affect the health and retard the progress of the city. It is not necessary to repeat in detail the recommendations then made, as they have become a matter of official record and were made the subject of a special message by the President to Congress. That message was referred by the House of Representatives to the Committee for the District of Columbia, and is now under consideration. It is hoped that favorable action will be taken during the coming session. To the accomplishment of that end the Commissioners will give their earnest efforts, and ask the support of the citizens of the District.

The area of the marshes to be reclaimed above the Long Bridge is 323.9 acres; below the bridge, 305.9 acres; or a total of 629.8 acres. The filling of these marshes, estimated at 20 cents per cubic yard, will cost $3,872 per acre reclaimed.

SECRETARY.

The secretary of the board submits copies of orders passed during the fiscal year covered by this report, and makes suggestions respecting provisions for the arrangement of the old records of the municipal governments in the District preceding the government by Commissioners.

AUDITOR AND COMPTROLLER.

The auditor and comptroller in his report submits detailed statements and explanations respecting the receipts and expenditures of the District government for the fiscal year ending June 30, 1880.

COLLECTOR OF TAXES.

The collector of taxes reports the collections by his office during the fiscal year, and renews the suggestions made in his report for 1879 for additional legislation respecting the revenue from taxation. He makes other recommendations with a view to increasing the efficiency of the clerical force of his office.

TREASURER AND ASSESSOR.

The treasurer and assessor furnishes a statement of the business transacted by his office during the year. He favors an improved license law as a more satisfactory source of revenue than the personal tax, recommends the exemption of parsonages, and makes other suggestions and statements of interest in connection with the business of his office.

HEALTH OFFICER.

The health officer makes an extended report of the transactions of his department for the fiscal year, and recommends measures to increase its efficiency.

POLICE.

The superintendent of police reports the operations of the department under his charge for the year, advises an increase of the force, and recommends that provision be made for policemen who have incurred disability in the performance of duty.

INSPECTOR OF BUILDINGS.

The inspector of buildings reports the issue of 1,921 permits for erection and repair of buildings during the fiscal year, representing an aggregate value of $2,129,978, of which $1,571,682 was for the erection of new brick buildings.

Although the number of permits issued this year was less than for the preceding year, the valuation of the buildings erected under them exceeds the valuation of those constructed last year by nearly $500,000, and indicates a decided improvement in the class of buildings erected.

SUPERINTENDENT OF PROPERTY.

The superintendent of property submits a statement of the purchase and distribution of supplies for the various departments of the District government during the year.

FIRE DEPARTMENT.

The fire commissioners report the operations of the fire department during the year, advise an increase of the department, commend the conduct of the officers and men, and renew the recommendation made in their two preceding reports that certain provision be made for firemen who have and may become unable to perform active duty through disability incurred in the service.

THE ATTORNEY.

The attorney gives a synopsis of the causes which engaged the attention of his office during the year, and incloses a list of the outstanding judgments against the District.

THE CORONER.

The coroner details the business of his office during the year, and renews the recommendation made in previous reports for the establishment of a morgue, and that coroners' juries be reduced to six jurymen, who shall receive one dollar each for each inquest.

OTHER REPORTS.

Appended hereto are also reports of—
The Columbia Hospital for Women and Lying-in Asylum.
The sealer of weights and measures.
The Children's Hospital, and
Treasurer United States, showing the funded indebtedness of the District.

Very respectfully,

J. DENT,
THOS. P. MORGAN,
W. J. TWINING, *Major of Engineers*,
Commissioners D. C.

A.—REPORT OF THE SECRETARY.

OFFICE OF THE COMMISSIONERS
DISTRICT OF COLUMBIA,
Washington, September 15, 1880.

GENTLEMEN: I have the honor to submit to you the accompanying copies of orders passed by the Board of Commissioners during the fiscal year ending June 30, 1880, and to refer to certain matters connected with the office that have received my special attention.

On the 1st of last October the "old record division" was temporarily placed under my supervision, and so continues, and it seems proper that I here make a brief mention of its history, with certain suggestions that have occurred to me concerning it.

Frequent demands for information which could only be obtained from the old *miscellaneous* records of the municipal corporations in the District preceding the commission form of government, decided the Commissioners to cause those records to be arranged and indexed in such manner that ready reference could be had to any data therein desired for consultation. In pursuance of this purpose, work was commenced by a clerk assigned to that duty in June, 1878, and continued under a very small and constantly varying force until the 1st of last June. The employment of a force adequate to an early completion of the undertaking was precluded by the necessity of using all available means not required for current matters to the urgent duty of revising the special assessments and upon other work connected therewith, to which it has been found necessary to divert, temporarily, even the special provision for this division. The accommodations also for a labor of such diversity and magnitude have been insufficient for an advantageous arrangement of the records and of the duties of those engaged upon the work.

Notwithstanding these disadvantages, the results thus far attained are creditable to the clerks employed upon the work, but, for the reasons stated, not in satisfactory proportion to the end proposed in the establishment of the division.

I estimate that it will take six competent clerks, under the supervision of a chief who shall give his entire attention to the duty, more than a year to collect, arrange, and index these records in a satisfactory manner. The force now specifically provided for this division comprises two good clerks, with salaries of $1,200 and $900, respectively, but they are now temporarily detailed to duty in other branches of the District government. If it be the intention of the Commissioners to proceed with this work to completion, I suggest that those clerks might be recalled, and that the *three regular* clerks now engaged upon the revision of special assessments transferred to the old record division, with a necessary part of the room they occupy, when their services shall no longer be required upon special assessment matters. With such increased force and accommodation very satisfactory progress might be made.

With respect to the clerical and messenger force of the office of the Commissioners, I am of opinion that it is about justly proportionate to the duties required of it, and composed of competent and attentive employés.

Very respectfully,

WILLIAM TINDALL,
Secretary.

The BOARD OF COMMISSIONERS
of the District of Columbia.

OFFICE OF THE COMMISSIONERS,
DISTRICT OF COLUMBIA,
Washington, July 10, 1879.

Ordered, That the sealer of weights and measures of the District of Columbia be empowered to demand and receive in advance the fee for sealing coal scales; and no such scales shall be used until all proper fees and arrearages, if any, shall have been paid.

That all persons selling, or offering to sell, coal in less quantity than one hundred pounds be required to use the regular dry measure commonly used in the District of Columbia; and any person who shall sell, or offer to sell, coal in less quantity than one hundred pounds by any other measure than said dry measure, shall be deemed guilty of an offense against the District of Columbia and shall be fined $5 for each offense, to be collected and applied as other fines for violation of the coal regulations.

JULY 12, 1879.

Ordered, That in the opinion of the board, the third section of the act of Congress approved June 27, 1879, providing for issuing drawback certificates for overpaid special assessments is general in its meaning and includes all special assessments without regard as to whether they are held by the District or by third parties.

JULY 17, 1879.

By virtue of the authority conferred on the Commissioners of the District of Columbia by act of Congress approved June 10, 1879, it is hereby

Ordered, That the use of pavement or street washers or hand-hose shall be restricted to the following hours, viz, from 6 to 10 o'clock p. m., and in no case shall such street-washers or hose be used to exceed one-half hour.

Any person or persons violating this order shall be liable to a fine of not less than $1 nor more than $5 for each offense, to be recovered and applied as other fines.

JULY 26, 1879.

Ordered, That all assessments on county roads made under the act of the legislative assembly of August 10, 1871, except those on Seventh-street road, Fourteenth-street road, Columbia road, and the Canal road, are hereby annulled; the work done on such roads, in the opinion of the Commissioners, not being of a character justifying assessments.

In respect to the roads excepted above, the Commissioners will make careful examination to determine whether the work done is assessable, and what will be a just basis of revision.

JULY 29, 1879.

Ordered, That in the case of walls, copings, steps, and work of like character, the assessments will be separated from the regular assessment, and simply be held as an offset to any damage that may hereafter be claimed to have been done.

JULY 31, 1879.

Ordered, That the official terms of school trustees shall expire on the 30th of June, and they shall hold office until their successors are appointed. All future appointments of said trustees shall conform to this order.

That George C. Samson, John H. Brooks, Benjamin F. Lloyd, Thomas Somerville, John F. N. Wilkinson, Arthur Christie, and William H. A. Wormley are hereby appointed school trustees for the term of three years from the first of July, 1879.

AUGUST 4, 1879.

In accordance with act of Congress, approved June 27, 1879, authorizing the Commissioners of the District of Columbia to extend the area for taking up and impounding domestic animals found running at large in the District of Columbia, it is hereby

Ordered, That on and after Friday, August 5, 1879, domestic animals shall not be permitted to run at large in the populated suburbs of the cities of Washington and Georgetown, nor within the villages of Mount Pleasant or Anacostia, nor south of the Columbia road, Brown's road, and Gleason's road, and west of the Seventh-street road, nor at any point in the county of Washington within one mile of the boundary lines of the cities of Washington and Georgetown; and any animal found running at large within the boundaries named, on and after the above date, shall be taken up and impounded.

AUGUST 5, 1879.

Ordered, That on business streets where there is no interference with lamps, trees, or public works, vaults may be allowed to come to the curb.

AUGUST 15, 1879.

Ordered, That in consequence of the action of the supreme court of the District of Columbia, of the 14th instant, enjoining the Commissioners of said District from collecting the water rents for the six months from July 1, 1879, to January 1, 1880, under their order of June 30, 1879, said order is hereby rescinded, and the collection of water rents for said six months will be made at the rates prevailing before the passage of said order.

Where payments have been made under said order in excess of the old rates, such excess will be refunded or retained as a credit on future water-rent accounts, as the parties who made the payments may prefer; and where payments have been made under said order at less than the old rates, the parties who made them will be required to pay the deficiency.

AUGUST 25, 1879.

Ordered, That the president of the Board of Commissioners of the District of Columbia shall sign the twenty-year five per cent. bonds prepared for issue under the act of Congress entitled "An act authorizing the Commissioners of the District of Columbia to issue twenty-year five per cent. bonds of the District of Columbia to redeem certain funded indebtedness of said District," approved June 10, 1879.

AUGUST 29, 1879.

Ordered, That the statements made by Mr. G. W. Beall, clerk in charge of special assessments, be sent by Mr. W. O. Roome to the office of the treasurer and assessor, who will have entered thereon a statement as to whether the property therein mentioned is still assessed in the name given by Mr. Beall, and if changed, the name of the present owner. Every person receiving a drawback certificate, and claiming that he is and has been continuously the owner of the property assessed, will be required to make oath to the fact.

AUGUST 30, 1879.

Ordered, That the resignations of E. F. M. Faehtz as intendant, and Mrs. Almira M. Faehtz as matron of the Washington Asylum, are hereby accepted to take effect on the 1st of October, with leave of absence from the 1st of September, 1879.

That the offices of commissioner and intendant of said asylum are hereby consolidated, and that George A. Caswell, commissioner, is hereby appointed intendant of said asylum in place of said Faehtz, to take effect on the 1st day of October, 1879, with instructions and authority to take charge and direction from this date of said asylum and of all property belonging or appertaining thereto.

SEPTEMBER 1, 1879.

Ordered, That the order of September 30, 1878, requiring police-station keepers to have the qualifications necessary and be eligible for appointment as privates of the Metropolitan police force of the District of Columbia, is hereby revoked.

SEPTEMBER 4, 1879.

Ordered, That all papers connected with claims of any character against the District, and requiring authentication by a notary public or justice of the peace, must be authenticated by or before officers having no connection with the claimant's side of the case.

SEPTEMBER 9, 1879.

Ordered, That all cases of special improvements made by the late board of public works, whether under an ordinance of the corporation of Washington, or an act of the District legislature, are within the purview of the thirty-seventh section of the act of February 21, 1871, and one-third of the *first* cost thereof shall be assessed on the adjoining property, and no more.

That all assessments for special improvements made by said board of public works are proper subjects for revision under the act of June 27, 1879.

That the special assessments along the *Canal road* are hereby annulled, the improvements being of no special value to the adjoining property.

That on the Columbia road the special assessments are hereby reduced to one-third; and upon the Seventh-street road and Fourteenth-street road to one-fourth of the original assessments.

SEPTEMBER 13, 1879.

Ordered, That the special assessments on the property adjoining the north side of Boundary street are hereby reduced to one-third of their original amount.

SEPTEMBER 22, 1879.

Ordered, That in cases where the improvement of streets and avenues was commenced under the corporation government and completed under the board of public works, so that the special assessment for such improvement comes within the purview of the act of Congress entitled "An act to provide a government for the District of Columbia," approved February 21, 1871, and the act of the District legislature entitled "An act prescribing the mode of assessment for special improvements and providing for the collection thereof," approved August 10, 1871; and where the street or avenue has been again improved by the board of public works, so that a new assessment for additional work is laid upon the same property, the drawback for old material will not be allowed; but the drawback for two-thirds of the first assessment will be in full of all credits due on account of the first assessment and the reuse of the old material originally put down thereunder.

Where the drawback in such cases for old material has not been paid, it will be canceled in the revision of the later assessment; and where such drawback has been paid it will be debited in the revision of the earlier assessment which reduces that assessment to one-third of the original amount.

OCTOBER 2, 1879.

Ordered, That pursuant to the provisions of the act of Congress providing a permanent form of government for the District of Columbia, approved June 11, 1878, and an act making appropriations for sundry civil expenses of the government for the fiscal year ending June 30, 1880, and for other purposes, approved March 3, 1879, a tax be, and the same is hereby, levied, of $1.50 on every one hundred dollars of real estate not exempted by law, except upon real property held exclusively for agricultural purposes without the limits of the cities of Washington and Georgetown, and so designated by the assessor in his annual return, the rate on which shall be $1.00 on every $100; and upon all personal property in the District of Columbia, not taxable elsewhere, $1.50 on every $100, according to the cash valuation thereof.

The first half of the said tax shall be due and payable on the 1st day of November, 1879, and the second half on the 1st day of May, 1880.

OCTOBER 14, 1879.

Ordered, That asphalt be substituted for stone in the proposed pavement of Ninth street, from P to U streets, northwest; and that the proposal of John S. Baldwin, to lay the pavement at $1.46 per square yard, be accepted.

OCTOBER 16, 1879.

Ordered, That the contractors for laying the pavement at the intersection of Louisiana avenue and Seventh street are authorized to lay a compressed asphalt block pavement at their present contract price for stone.

OCTOBER 27, 1879.

Ordered, That in conformity with the order of the President of the United States closing the government departments to-morrow, the 28th instant, from 11 o'clock a. m. and during the balance of the day, the offices of the District government will also be closed at that time.

NOVEMBER 4, 1879.

Ordered, That, in compliance with the order of the President of the United States directing that all government offices be closed on the day of the funeral of the late Hon. Zachariah Chandler, formerly Secretary of the Interior and a United States Senator from the State of Michigan, the offices of the District government will be closed to-morrow, the 5th instant.

NOVEMBER 6, 1879.

Ordered, That the salary of the attorney for the District of Columbia is hereby fixed at $4,000 per annum, commencing on the 1st of July, 1879, as appropriated for in act of Congress approved March 3, 1879.

NOVEMBER 11, 1879.

Ordered, That the contract on the Seventh-street road be closed when the work is done satisfactorily as far as Brightwood, there being no funds to complete it.

That the contractor, J. S. Baldwin, on I street, northwest, is authorized to continue the paving of the street as far east as Fifth street, northwest, replacing only rotten wood pavement where it occurs. Also, to replace the rotten wood pavement at the intersection of G and Eighteenth streets, northwest, with asphaltum, not to exceed two hundred and twenty-five square yards, at $1.47 per square yard.

NOVEMBER 18, 1879.

Ordered, That whereas the President of the United States has directed that the several departments of the government be closed on Wednesday, the 19th instant, to enable employés to participate in the ceremonies attending the unvailing of the statue of the late General George H. Thomas, the offices of the District government will be closed on that day.

NOVEMBER 26, 1879.

Ordered, That in pursuance of the proclamation of the President of the United States of the 3d instant, appointing Thursday, the 27th instant, as a day of national thanksgiving and prayer, the offices of the District government will be closed on the day last mentioned.

DECEMBER 5, 1879.

Ordered, That William Buckley, contractor, be authorized to replace a portion of the rotten wood pavement on Potomac street, near Bridge street, in Georgetown, not to exceed 500 square yards, with granite block pavement, at the rate of $1.93 per square yard.

DECEMBER 13, 1879.

Ordered, That hereafter drawback certificates will only be issued on Monday of each week. On all other days the office of the clerk in charge of the revision of special assessments will be closed, for the purpose of completing the revision.

DECEMBER 20, 1879.

Ordered, That the offices known respectively as "the clerk in charge of special assessments" and "the clerk in charge of the revision of special assessments" are hereby consolidated, and shall hereafter be known as the special assessment division.

That it shall be the duty of Mr. George W. Beall to receive all payments of special assessment bills and keep such accounts as are incidental thereto.

That Mr. William O. Roome is hereby appointed chief of the special assessment division, and as such shall assume charge of all matters and records relating to special assessments, and report directly to the Commissioners in all cases requiring the special action of the board.

DECEMBER 24, 1879.

Ordered, That the offices of the District government be closed on the 25th instant and 1st proximo; at 12 o'clock m. on the 24th and 31st instant, and at 1 o'clock p. m. on the 26th, 27th, 29th, and 30th instant.

DECEMBER 26, 1879.

Ordered, That in cases where work was completed prior to February 21, 1871, the law of assessment is the law of the old corporation, and the whole cost is to be assessed. Where work was completed after February 21, 1871, only one-third is to be assessed.

The above decision will be observed in the H. D. Cooke assessments.

DECEMBER 31, 1879.

Ordered, That from and after the 1st proximo the watch of this building shall be arranged in three reliefs, as follows:

First relief, from 6 o'clock a. m. until 9 o'clock a. m. and from 3 o'clock p. m. until 6 o'clock p. m.

Second relief, from 6 o'clock p. m. until 12 o'clock p. m.

Third relief, from 12 o'clock p. m. until 6 o'clock a. m.

Between the hours of 9 a. m. and 3 p. m. the building will be in charge of the superintendent of property, who, on Sundays and holidays, shall make details for watch duty during those hours from the responsible employés of the District under his direction.

The watch will be under the supervision of the lieutenant of Metropolitan police of the seventh precinct, who will cause it to be visited in like manner with the posts of the police department.

JANUARY 19, 1880.

Ordered, That in pursuance of power vested in the Commissioners of the District of Columbia by section 3 of "An act providing a permanent form of government for the District of Columbia," approved June 11, 1878, the part of the space at the intersection of C and Seventh streets

and Louisiana avenue, northwest, parallel with and contiguous to the eastern line of said Seventh street, is hereby located as a place where hacks shall stand, arranged in such order as the inspector of hacks, under the instructions of the said Commissioners, may require.

JANUARY 22, 1880.

Ordered, That the thanks of this board are hereby tendered to William A. Gordon, esq., for his gift to the District of copies of ordinances of the late corporation of Georgetown. The volumes are a valuable contribution to the District library, and their presentation is an exhibition of commendable public spirit in the donor.

JANUARY 23, 1880.

Ordered, That the application of Messrs. Cooper & Murdock, contractors, to lay a temporary tramway along Boundary street in this city, and their request to the master of road of the Baltimore and Ohio Railroad Company as to crossing certain railroad tracks of said company therewith, are approved by this board, subject to the right of the Commissioners to revoke their approval whenever they deem it expedient.

FEBRUARY 5, 1880.

Ordered, That the contractor and bondsmen are hereby suspended from the execution of contract No. 236 for the erection of a schoolhouse on square 158, they having failed to comply with the terms of the contract.

A contract will be entered into with John H. Howlett, in accordance with the new plans which have been adopted.

FEBRUARY 6, 1880.

Ordered, The chief of the special assessment division will proceed to revise the alley assessments.

The verbal order of the board suspending these assessments is hereby revoked.

FEBRUARY 21, 1880.

Ordered, That the offices of the Government of the District of Columbia be closed on Monday, the 23d instant, in commemoration of Washington's birthday.

FEBRUARY 26, 1880.

Ordered, That, in pursuance of the resolution of the Committee for the District of Columbia of the House of Representatives of this date, the issue of drawback certificates under provisions of the acts of Congress of June 19, 1878, and June 27, 1879, is hereby suspended; and the collector of taxes will not receive hereafter any of these certificates heretofore issued until otherwise ordered.

FEBRUARY 26, 1880.

Ordered, That, under the authority invested in the Commissioners of the District of Columbia by the act of Congress approved June 10, 1879,

the following schedule of annual water-rates is adopted, to take effect January 1, 1880, and will continue in force until otherwise ordered:

DOMESTIC RATES.

The rates for domestic purposes will be charged according to stories and front feet—the same as heretofore—with the addition of twenty per cent., viz:

On all tenements two stories high, with front width of sixteen feet or less, $3 per annum. Each additional story, $1, and each additional front foot, 25 cents.

SPECIAL BUSINESS AND MISCELLANEOUS RATES.

In every case where business houses or tenements are occupied also for domestic purposes, the regular charge for domestic purposes according to the above rates will be made, and in addition thereto the special business rate, as hereinafter specified.

Special and miscellaneous business will be charged at the following rates, viz:

Bar-rooms and restaurants, from fifteen to fifty dollars per annum.

Billiard-rooms, from five to twenty dollars per annum.

Eating-houses, from eight to twenty dollars per annum.

Barber-shops, from six to twelve dollars each per annum.

Public baths, four dollars per annum for each and every tub.

Bakeries, from three to fifteen dollars per annum.

Boarding and tenement-houses will be charged at a rate in accordance with the stories and front feet, and the twenty per cent. addition of same, and in addition thereto fifty cents per annum for each and every room over and above the number of three rooms in said boarding-house or tenement.

Building purposes.—For each one thousand bricks laid, three cents per thousand. Special rates will be charged for public works.

Brick-yards, ten to fifty dollars each per annum, according to production. Machinery and horse-power extra, at regular rates.

Boarding-schools and school houses, from five to ten dollars per annum.

Cow-stables.—For each and every cow, twenty-five cents per annum.

Depots.—Locomotive engines taking water once per day, seventy-five dollars; twice per day, one hundred and fifty dollars. The building extra, according to number of offices, bars, and refreshment rooms; water-closets and urinals, three dollars each.

Dye-houses.—Five to twenty dollars per annum. Machinery taking water, extra.

Fountains will only be used three hours per day, and will be charged as follows: One sixteenth of an inch jet, five dollars per annum; for a one-eighth of an inch jet, ten dollars per annum; for a one-quarter of an inch jet, twenty dollars per annum; for a one-half inch jet, fifty dollars per annum; for a three-quarters of an inch jet, seventy-five dollars per annum; and for an inch jet, one hundred and fifty dollars per annum.

In case a meter is used, there will be charged one cent for each and every hundred gallons. No fountain will be permitted on any premises where the water is not taken for other purposes, and to an extent sufficient for those purposes; and if the water from the jet or fountain be permitted to flow into premises adjacent to or in the neighorhood, where

it may be used for other purposes, the supply will be stopped, and the amount of payment forfeited.

Florists will be charged at the rate of from five to twenty dollars per annum, according to the size of the premises.

Horses, private.—For each and every horse, one dollar and fifty cents; said sum to include water for washing carriages.

Horses, hackney and draught.—For each and every horse, seventy-five cents per annum.

Hotels.—One dollar for each bed or furnished room; bar, billiard-rooms, barber-shops, offices, stores, and machinery taking water, extra.

Laundries, five to fifteen dollars, according to general business. Machinery using water, according to rates for stationary engines and boilers.

Livery stables.—For each and every horse, seventy-five cents per annum.

Mills.—Five dollars. Machinery extra, according to the rates for stationary engines.

Market-houses, fifty cents per stall.

Printing-houses, from five to ten dollars per annum, according to the number of presses. Machinery in same using water will be charged in addition thereto, according to the rate for stationary engines.

Stationary engines, three dollars per horse-power. Boilers without engines, one dollar and seventy cents per horse-power.

Stores, shops, confectioneries, warehouses, and mills, five to ten dollars per annum.

Steamboats, according to tonnage: 50 tons and under, twenty-five dollars; over 50 tons, fifty dollars.

Street-washers, where parties use same and water is not taken in the house, will be charged at rates from three to ten dollars per annum, according to nozzle or tap, and may be used not longer than thirty minutes immediately before sundown.

Street-sprinklers will be charged at the rate of one cent for each and every thousand gallons of water used.

Slaughter-houses, from five to twenty dollars per annum, according to general business. Machinery taking water, extra, according to rates for stationary engines.

Swimming baths, manufactories, paper mills, or any other business requiring a large supply of water, will be required to use a meter, and will be charged at the rate of ten cents for each and every thousand gallons of water used.

MARCH 2, 1880.

Ordered, That the major of police will cause the arrest of any person or persons found violating the law in disfiguring the paved streets of the city by writing, drawing figures, or making representations of any kind thereon.

MARCH 10, 1880.

Ordered, That in the enforcement of the water rents for the current year, houses whose assessed valuation does not exceed $2,500, will in no case be charged more than $9.

MARCH 11, 1880.

Ordered, That a board is hereby organized consisting of the auditor and comptroller, the treasurer and assessor, and the collector of taxes,

to consider and recommend to the Commissioners such changes as may be found by them necessary in the relations between the offices of the treasurer and assessor and the collector of taxes; and to further recommend such a system of checks between these offices as may appear to be practicable and desirable.

MARCH 12, 1880.

Ordered, That, until the reorganization of the fire board, Chief Engineer Cronin will report to Commissioner Morgan.

MARCH 19, 1880.

Ordered, That in the future the bills for gas will be sent to the various chiefs of departments against whose accounts the same are chargeable, as follows:

All bills for police headquarters and police stations, to the major and superintendent of the metropolitan police.

All bills for engine-houses, to the commissioners of the fire department.

All bills for the work-house, to the commissioner and intendant of the Washington Asylum.

All bills for the stand pipe, to the water registrar.

All bills for the public school buildings, to the board of trustees of public schools, District of Columbia.

All bills for the police court, to the judge of the police court.

All bills for the health department, to the health officer.

All other bills, viz, for gas consumed in street-lamps, for repairs to and erection of the same, for gas consumed in District offices and at markets, will be forwarded, as heretofore, to the engineer Commissioner, District of Columbia.

MARCH 31, 1880.

Ordered, That the treasurer and assessor may issue permits to produce dealers for fractions of the year commencing April 1, 1880, as follows:

Ten dollars for the first quarter.

Ten dollars for the second quarter.

Five dollars for the last half.

APRIL 1, 1880.

Ordered, That the order of February 26, 1880, suspending the issue and receipt of drawback certificates under provisions of the act of Congress of June 19, 1878, and June 27, 1879, is hereby revoked.

APRIL 5, 1880.

Ordered, That hereafter the cashier of the special assessment division and the collector will be required to furnish direct to the Commissioners a statement, each day, of the drawback certificates received during the day preceding, giving the number of each certificate, the amount, the lot and square upon which issued, and the name of the person to whom issued.

The statements so rendered will be forwarded by the secretary to the chief of the special assessment division, who will cause the statements to be compared by the clerks in charge of the individual ledgers and

return them with his own signature and those of the clerks in charge of the several ledgers.

As soon as practicable, similar reports will be made of drawback certificates heretofore received.

APRIL 16, 1880.

Ordered, That the major of police is hereby directed to cause a prompt and strict enforcement of the ordinance respecting "all vagrants, idle and disorderly persons, persons of evil life and fame, persons who have no visible means of support, persons who are likely to become chargeable to the corporation as paupers, persons found begging or drunk in or about the streets, or loitering in or about tippling houses, all suspicious persons who have no fixed place of residence or cannot give a good account of themselves, persons guilty of open profanity or grossly indecent language or behavior publicly in the streets."

APRIL 23, 1880.

Ordered, That the chief of the special assessment division be, and he is hereby, directed to cause the funds in the custody of Mr. George W. Beall, received for condemnations of alleys, to be delivered to the treasurer of the District, who will make a special deposit of the same in the Treasury of the United States.

MAY 4, 1880.

Ordered, That the market-masters of the several markets of the District of Columbia shall be reappointed for one year from the expiration of their last appointment, upon executing and filing satisfactory bonds.

MAY 6, 1880.

Ordered, That hereafter no clerk discharged for cause will be allowed to practice as an attorney or agent for others in the District offices.

MAY 10, 1880.

Ordered, That the building regulations of the District of Columbia be, and are hereby, amended by adding the words "nor shall any wooden building to be used as a stable be placed within thirty feet of any dwelling," after the word "purposes" in section 18 of said regulations.

MAY 10, 1880.

Ordered, That the Manual of the Metropolitan Police of the District of Columbia is hereby adopted by this board for the regulation of the police department of said District, until otherwise ordered.

MAY 15, 1880.

Ordered, That when an assessment has been finally revised under acts of Congress of June 19, 1878, and June 27, 1879, and the bill settled, or drawback certificates issued and accepted, as provided in said acts, no further action can be taken in such cases.

MAY 22, 1880.

Ordered, Numerous complaints having been made to this office by persons in ill health, and by the friends of others too sick to complain in person, of the great annoyance and injury to them by the shouting of vendors and other persons pursuing avocations upon the public street for purposes of private gain, the superintendent of police is directed to *warn* all persons who may be found so disturbing the public peace, to desist, and, upon a disregard of any such warning, cause the arrest of such persons, and their prosecution before the police court for disturbing the public peace.

MAY 28, 1880.

Ordered, That the offices of the District of Columbia be closed on "Decoration Day," Saturday, the twenty-ninth instant.

JUNE 3, 1880.

Ordered, In accordance with section 2, general conditions of contract No. 105, the garbage contractor, H. Clay Jones, having failed to comply with the conditions of his contract, is hereby suspended from the further execution of the said contract, and the health officer is directed to take such steps as may be immediately necessary to remove all garbage accumulating in the city from the neglect of the said contractor.

JUNE 3, 1880.

Ordered, In case of lien certificates now being issued, the chief of the special assessment division will date the interest on the revised assessment thirty days after the date of the original assessment, in accordance with the opinion of the attorney of the District of Columbia, of July 15, 1878.

JUNE 5, 1880.

Ordered, That from and after this date the issue of drawback certificates be suspended until further directed, and the special assessment division, with all business, records, books, and papers appertaining thereto, will be under the care and direction of Mr. A. J. Marsh, who is hereby appointed temporary chief of the division, the business of which will proceed as usual, except as above provided.

JUNE 9, 1880.

Ordered, That the bondsmen of H. Clay Jones, garbage contractor, suspended by the order of June 3, are hereby authorized to proceed to carry out the remainder of that contract, subject to all its conditions and penalties.

That the amount expended by the health officer in performing the contract since the suspension of the contractor shall be deducted from any sums which are or may become due to them under the operation of this order.

That the health officer will cause a circular letter to be issued calling the attention of citizens to the delay and inconvenience arising under the present system of placing garbage, and requesting all those whose premises connect with alleys to place the boxes containing garbage in such a place that it can be reached more readily by the garbage collectors.

JUNE 11, 1880.

Ordered, That the collector of taxes and the treasurer and assessor of the District of Columbia be, and they are hereby, instructed to avail themselves of any balances to the credit of the contingent funds of their respective offices for the current fiscal year, to proceed to collect the general and personal taxes in arrears by advertisement, by personal demands, and by any other means they may deem expedient; but before acting under this order will prepare and submit to the Commissioners, for their approval, a plan by which to carry it into effect.

JUNE 21, 1880.

Ordered, The order of the Commissioners, dated June 5, 1880, granting a furlough to Messrs. Roome and Beall, and suspending the issue of drawback certificates until further directed, is this day revoked, and Messrs. Roome and Beall are directed to resume their duties in the special assessment division.

JUNE 28, 1880.

Ordered, That Silas Merchant, receiving clerk in the office of the collector of taxes of the District of Columbia, shall give bond in the sum of $20,000 before entering upon duty as such during the fiscal year commencing July 1, 1880.

JUNE 30, 1880.

Ordered, That from and after this date it shall be the duty of the collector of taxes to receive, collect, and account for all taxes assessed for special improvements; and John W. Clark, of the special assessment division, is hereby transferred to the collector's office to aid him in the discharge of this additional duty.

B.—REPORT OF THE TREASURER OF THE UNITED STATES.

Statement of the funded indebtedness of the District of Columbia and late corporations of Washington and Georgetown.

JULY 1, 1880.

Description of bonds.	Act authorizing issue.	Date of maturity.	Interest.	
			Rate.	Coin or currency.
Of the District of Columbia:				
Permanent improvement ..	Assembly, July 10 and December 16, 1871.	July 1, 1891	6 per cent ...	Coin.
Permanent improvement ..	Assembly, June 23 and 25, 1873	July 1, 1891	7 per cent ...	Currency.
Market stock	Assembly, August 23, 1871, and June 19, 1872.	July 26, 1892	....do	Do.
Water stock	Assembly, July 20, 1871	Oct. 1, 1901	....do	Do.
Water stock	Assembly, June 26, 1873.....	July 1, 1903	....do	Do.
Fifty-year funding	Congress, June 20, 1874, February 20 and March 3, 1875.	Aug. 1, 1924	$3\frac{65}{100}$ per cent	Do.
Twenty-year funding.....	Congress, June 10, 1879.....	July 1, 1899	5 per cent ...	Do.
Of the late corporation of Washington:				
Twenty-year funding.....	Congress, May 8, 1872	July 1, 1892	6 per cent ...	Coin.
Thirty-year funding	Assembly, District of Columbia, June 20, 1872.	Nov. 1, 1902	....do	Do.
Three-year (Emery)	Congress, July 7, 1870	July 30, 1873	$7\frac{3}{10}$ per cent.	Currency.
General stock	City council, August 19, 1828.	At pleasure.	5 per cent ...	Do.
Of the late corporation of Georgetown:				
General stock	City council, May 12, 1871	July 1, 1881	8 per cent ..	Currency.

Description of bonds.	Interest.		Amount registered.	Amount coupon.	Total.
	Payable.	When due.			
Of the District of Columbia:					
Permanent improvement..	Semi-annually.	Jan. 1 and July 1..	.....	$3, 995, 000	$3, 995, 000 00
Permanent improvement..	....do	....do	.....	670, 000	670, 000 00
Market stock.....	....do	... do	$100, 000	50, 000	150, 000 00
Water stock.....	....do	....do	.....	397, 000	397, 000 00
Water stock.....	....do	... do	.....	26, 000	26, 000 00
Fifty-year funding	....do	Feb. 1 and Aug. 1..	8, 257, 000	5, 247, 900	13, 504, 900 00
Twenty-year funding.....	....do	Jan. 1 and July 1..	109, 000	983, 300	1, 092, 300 00
Of the late corporation of Washington:					
Twenty-year funding.....	Semi-annually.	Jan. 1 and July 1..	.....	1, 150, 000	1, 150, 000 00
Thirty-year funding.....	....do	May 1 and Nov. 1..	.....	660, 000	660, 000 00
Three-year (Emery).....	....do	Interest ceased...	.....	100	100 00
General stock	Quarterly	Jan. 1, Apr. 1, July 1, Oct. 1.	.....	.....	23, 023 33
Of the late corporation of Georgetown:					
General stock	Quarterly	Jan. 1, Apr. 1, July 1, Oct. 1.	20, 000	.....	20, 000 00
					21, 688, 323 33

Stocks and bonds outstanding on which interest has ceased, there being funds for the payment of the principal and interest deposited in the United States Treasury.

Corporation of Washington ten-year bonds.....	$150 00
Corporation of Washington five per cent. general stock.....	2, 010 00
Corporation of Washington six per cent. general stock	7, 580 17
Corporation of Washington six per cent. canal stock.....	200 00
Corporation of Georgetown six per cent. general stock.....	1, 300 00
	11, 240 17
Total reduction of funded debt since July 1, 1878.....	418, 326 67
Total reduction in annual interest charge since July 1, 1878	30, 154 11

JAS. GILFILLAN,
Treasurer United States, ex-officio Commissioner of the Sinking Fund of the District of Columbia.

OFFICE OF THE TREASURER OF THE UNITED STATES,
Washington, July 1, 1880.

Statement of the funded indebtedness of the District of Columbia and late corporations of Washington and Georgetown.

OCTOBER 1, 1880.

Description of bonds.	Act authorizing issue.	Date of maturity.	Interest.	
			Rate.	Coin or currency.
Of the District of Columbia:				
Permanent improvement..	Assembly, July 10 and December 16, 1871.	July 1, 1891	6 per cent ...	Coin.
Permanent improvement..	Assembly, June 23 and 25, 1873	July 1, 1891	7 per cent ...	Currency.
Market stock.....	Assembly, August 23, 1871, and June 19, 1872.	July 26, 1892	....do	Do.
Water stock.....	Assembly, July 20, 1871	Oct. 1, 1901	....do	Do.
Water stock.....	Assembly, June 26, 1873.....	July 1, 1903	....do	Do.
Fifty-year funding	Congress, June 20, 1874, February 20 and March 3, 1875.	Aug. 1, 1924	3 $\frac{65}{100}$ per cent	Do.
Twenty-year funding.....	Congress, June 10, 1879.....	July 1, 1899	5 per cent ...	Do.
Of the late corporation of Washington:				
Twenty-year funding.....	Congress, May 8, 1872	July 1, 1892	6 per cent ...	Coin.
Thirty-year funding.....	Assembly, District of Columbia, June 20, 1872.	Nov. 1, 1902	....do	Do.
Three-year (Emery)	Congress, July 7, 1870	July 30, 1873	7 $\frac{3}{10}$ per cent.	Currency.
Of the late corporation of Georgetown:				
General stock	City council, May 12, 1871....	July 1, 1881	8 per cent ...	Currency.

Description of bonds.	Interest.		Amount registered.	Amount coupon.	Total.
	Payable.	When due.			
Of the District of Columbia:					
Permanent improvement ..	Semi-annually.	Jan. 1 and July 1..	.....	$3,950,350	$3,950,350 00
Permanent improvement ..	....do	....do	.....	670,000	670,000 00
Market stock	....do	....do	$100,000	50,000	150,000 00
Water stock.....	....do	....do	.....	397,000	397,000 00
Water stock.....	....do	....do	.....	26,000	26,000 00
Fifty-year funding	....do	Feb. 1 and Aug. 1..	8,829,000	4,826,900	13,655,900 00
Twenty-year funding.....	....do	Jan. 1 and July 1..	106,000	983,300	1,089,300 00
Of the late corporation of Washington:					
Twenty-year funding	Semi-annually.	Jan. 1 and July 1..	.....	1,145,250	1,145,250 00
Thirty-year funding	....do	May 1 and Nov. 1..	.....	660,000	660,000 00
Three-year (Emery)	....do	Interest ceased ...	.....	100	100 00
Of the late corporation of Georgetown:					
General stock	Quarterly	Jan. 1, Apr. 1, July 1, Oct. 1.	20,000	.....	20,000 00
			9,055,000	12,708,900	21,763,900 00

Stocks and bonds outstanding on which interest has ceased, there being funds for the payment of the principal and interest deposited in the United States Treasury.

Corporation of Washington ten-year bonds.....	$150 00
Corporation of Washington five per cent. general stock.....	3,523 01
Corporation of Washington six per cent. general stock.....	7,580 17
Corporation of Washington six per cent. canal stock.....	200 00
Corporation of Georgetown six per cent. general stock.....	800 00
	12,253 18
Amount of funded debt retired by operation of the sinking fund since July 1, 1878.....	618,750 00
Reduction in annual interest charge by operation of the sinking fund since July 1, 1878.....	38,981 77

JAS. GILFILLAN,
Treasurer United States, ex-officio Commissioner of the Sinking Fund of the District of Columbia.

OFFICE OF THE TREASURER OF THE UNITED STATES,
Washington, October 1, 1880.

APPENDIX B 1.

TREASURY OF THE UNITED STATES,
Washington, September 29, 1880.

GENTLEMEN: I have the honor to inclose herewith a copy of the estimate for interest and sinking fund for the District of Columbia for the service of the fiscal year ending June 30, 1882.

Very respectfully,

JAS. GILFILLAN,
Treasurer United States.

Hon. COMMISSIONERS DISTRICT OF COLUMBIA.

Estimates of appropriations required for the service of the fiscal year ending June 30, 1882, *by the Treasurer of the United States.*

Detailed objects of expenditure, and explanations.	Total amount to be appropriated under each head of appropriation.	Amount appropriated for the current fiscal year ending June 30, 1881.
DISTRICT OF COLUMBIA.		
For interest and sinking fund, District of Columbia (appropriated 20 Stat. at L., p. 410. sec. 3)	$1,213,947 97	$1,155,583 55
NOTE.—The amount estimated for the service of the fiscal year 1882 exceeds the appropriation for interest and sinking fund for the current fiscal year by $58,364.42, which arises from the increase of $1,256,750 in the principal sum of the three-sixty-five loan of the District of Columbia, authorized by the act of June 16, 1880, the amount required for the annual interest thereon being $45,871.38, and the amount required under the act of March 3, 1879 (20 Stat. at L., p. 410) is $12,493.04, being the sum which, invested annually at three and sixty-five one-hundredths per cent., will pay the above principal sum at the maturity of the loan.		

JAMES GILFILLAN,
Treasurer of the United States.

APPENDIX B 2.

TREASURY OF THE UNITED STATES,
Washington, September 20, 1880.

GENTLEMEN: I have the honor to state that the estimated expenditures of the sinking-fund office for the fiscal year ending June 30, 1882, will be as follows:

Two clerks, at $1,200 each	$2,400
Contingent expenses, including books, stationery, express charges on District coupons paid in New York, and miscellaneous items	300
Total	2,700

Very respectfully,

JAS. GILFILLAN,
Treasurer United States.

Hon. COMMISSIONERS DISTRICT OF COLUMBIA.

C.—REPORT OF THE AUDITOR AND COMPTROLLER.

OFFICE OF THE AUDITOR AND COMPTROLLER,
DISTRICT OF COLUMBIA,
Washington, November 3, 1880.

GENTLEMEN: I have the honor to submit the following report of receipts and expenditures of the District government for the fiscal year ending June 30, 1880:

The revenue of the District government derived from all sources during said time, including balance on hand at the end of the fiscal year 1879, was $3,826,791.35, as follows:

Receipts from taxes, licenses, and miscellaneous sources on account of general expenses of the District of Columbia	$1,620,130 02
Receipts from repayments to various appropriations on account of general expenses District of Columbia and water fund	29,790 55

Receipts on account of water department	$196,382 41
Receipts on account of redemption of tax-lien certificates	3,576 56
Receipts on account of redemption of special tax scrip	8,058 82
Receipts on account of Washington redemption fund	8,297 33
Receipts on account of paving Pennsylvania avenue, act July 8, 1870	584 09
Receipts on account of repaving Pennsylvania avenue, act July 19, 1876	3,501 04
Receipts from taxes erroneously collected	5,861 35
Receipts from Congressional appropriations on account of general expenses of the District of Columbia, act March 3, 1879	1,625,733 00
District of Columbia deficiency, act June 16, 1880	27,274 15
District of Columbia Reform School, act February 25, 1880	8,483 56
District of Columbia improvement and repairs, 1881, act June 4, 1880, part	10,000 00
Receipts on account of filling ground south of the Capitol, act February 4, 1880	20,000 00
Receipts on account of penny lunch act, February 26, 1879	1,500 00
Balance on hand June 30, 1879	257,618 47
Total receipts	3,826,791 35

The expenditures by the District government during the same period was $3,523,867.90, as follows:

Payments for general expenses of the District of Columbia on account of salaries and contingent expenses of the offices of the District of Columbia	$152,398 85
On account of public schools	438,567 42
On account of Metropolitan police	301,926 25
On account of fire department	109,659 38
On account of health department	24,850 02
On account of police court	14,691 24
On account of judicial expenses	2,646 18
On account of institutions of charity, reformatories, &c	168,166 35
On account of streets, District of Columbia	292,635 96
On account of improvement and repairs	531,405 82
On account of constructing, repairing, and maintaining bridges	10,294 77
On account of Washington Aqueduct, appropriation 1879	15,000 00
On account of Washington Aqueduct, appropriation 1880	20,000 00
On account of workingmen of contractors	21,323 71
On account of judgments against the District of Columbia	2,667 81
On account of miscellaneous and general contingent expenses of the District of Columbia	38,668 30
On account of interest and sinking fund	1,155,583 55
On account of total general expenses	3,300,485 61
On account of water department	169,575 65
On account of filling grounds south of the Capitol, act April 4, 1878, and February 10, 1879	20,245 23
On account of medicines and medical attendance to poor, act February 10, 1879	1,607 37
On account of redemption of tax lien certificates	4,206 57
On account of redemption of tax sale certificates	10,220 32
On account of redemption of special tax scrip	8,619 60
On account of redemption of Pennsylvania avenue paving certificates, act July 19, 1876	1,846 20
On account of refunding erroneously paid taxes	5,861 35
On account of penny lunch	1,200 00
Total expenditures during the fiscal year	3,523,867 90

RECAPITULATION.

Total receipts during the fiscal year	3,826,791 35
Total expenditures during the fiscal year	3,523,867 90
Balance in United States Treasury July 1, 1880 (subject to requisition and draft):	
On account of general expenses of the District of Columbia	302,923 45

Appropriation 1879	$48,222 42	
Appropriation 1880	208,029 76	
Appropriation 1881	5,462 58	
		261,714 76

On account of water department		$30,103 48
On account of Washington special tax fund		5,410 68
On account of Washington redemption fund		694 69
On account of redemption of tax-lien certificates		779 91
On account of paving Pennsylvania avenue, act July 8, 1870		1,261 00
On account of repaving Pennsylvania avenue, act July 19, 1876		2,562 13
On account of filling grounds south of the Capitol:		
Act April 4, 1878	$5 08	
Act February 10, 1879	14 23	
Act February 4, 1880	44 69	
		64 00
On account of general expenses District of Columbia, act March 3, 1875		292 31
On account of fire department, act June 22, 1874		49
On account of assistant engineers, instrument account		40 00
		302,923 45

The foregoing statement of receipts from taxes includes cash receipts only; in addition thereto the collector of taxes of the District of Columbia, by virtue of an act of Congress approved June 27, 1879, entitled "An act fixing the rate of interest upon arrearages of general taxes and assessments for special improvements now due to the District of Columbia and for a revision of assessments for special improvements and for other purposes," received in payment of arrears of general taxes drawback certificates, issued by the Commissioners of the District of Columbia under the provisions of said act, amounting to $185,175.41, and by virtue of a joint resolution of Congress approved February 27, 1879, entitled "An act to provide for the settlement of tax-lien certificates erroneously issued by the late authorities of the District of Columbia," erroneously issued tax-lien certificates, amounting to $3,700.97, making the aggregate amount of arrears of general taxes paid to the collector of taxes of the District of Columbia during the fiscal year in drawbacks and erroneously issued tax-lien certificates $188,876.38. The taxes thus paid in drawbacks and erroneously issued tax-lien certificates represented so much money to the District, which would otherwise have been received in cash, and I respectfully recommend that application may be made to Congress to provide by proper legislation that all drawbacks and erroneously issued tax-lien certificates received in payment of arrears of general taxes by the collector of the District, under the provisions of said acts of Congress, shall be deposited in the Treasury of the United Sates and held to be that much money paid into the United States Treasury by the District of Columbia towards its share of the expenses of the District.

The treasurer of the District has paid into the United States Treasury, as required by law, all moneys received by him during the fiscal year and fully accounted for the same. The number of audits made during the year was 4,445, and of warrants drawn, 20,268.

The estimated expenses of this office for the fiscal year ending June 30, 1882, is $12,800.

For a more detailed statement of receipts and expenditures see accompanying exhibits marked A and B.

Respectfully submitted.

JOHN T. VINSON,
Auditor and Comptroller District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX C 1.

Statement by the auditor and comptroller of the cash receipts of the District of Columbia, as reported by the treasurer, from July 1, 1879, to June 30, 1880.

From whom and on what account received.	Detail.	Total.	Aggregate.
John F. Cook, collector:			
General fund, District of Columbia	$1,567,167 69		
Street railroads, special deposits	27,115 34		
Water rents and tax	196,382 41		
Redemption tax-lien certificates (trust)	3,576 56		
Redemption special-tax scrip (trust)	8,058 82		
Washington redemption fund (trust)	8,297 33		
Paving Pennsylvania avenue, act July 8, 1870 (trust)	584 09		
Repairing Pennsylvania avenue, act July 19, 1876 (trust)	3,501 04		
		$1,814,683 28	
Northern market	5,764 56		
Eastern market	3,280 30		
Western market	4,489 20		
Georgetown market	1,208 96		
		14,743 02	
Fines, police court	13,265 80		
Fines, criminal court	176 40		
		13,442 20	
Rent of District property	537 40		
Rent of District hay-scales	2,093 17		
		2,630 57	
Interest on bonds (Washington school-fund)		2,224 71	
Bills receivable (Western-market and wharf-rent notes)		932 70	
Washington Market Company (franchise rental)		9,375 00	
Fees for building and repair permits		3,577 50	
Fees collected by the poundmaster		78 25	
Sale of building corner of Ninth and K streets northwest		20 00	
Sale of material on account of general fund		761 54	
Sale of material on account of water fund		400 40	
Advertising sale for special assessments in 1875		416 09	
Attorney District of Columbia, account of judgment against J. B. Lord, rent of Seventeenth street wharf		444 72	
Attorney District of Columbia, account of costs in "Shoemaker case"		78 00	
James S. Wilson, late treasurer District of Columbia		946 92	
William H. Slater, late collector District of Columbia		200 00	
Repayment to water fund, account water tax refunded		119 71	
Repayments to various appropriations		2,555 50	
Premium on bonds, reported by Treasurer United States		8,552 06	
			$1,876,182 17
Total receipts from taxes, revenues, trust-funds, &c.			
From Congressional appropriations:			
Act February 26, 1879, penny-lunch house		1,500 00	
Act March 3, 1879, general expenses District of Columbia (corrected)		1,625,733 00	
Act February 4, 1880, filling grounds south of Capitol		20,000 00	
Act February 25, 1880, reform school, Dist. of Columbia		8,483 56	
Act June 4, 1880, part appropriation for improvements and repairs, 1881		10,000 00	
Act June 16, 1880, deficiencies, 1879 and 1880		27,274 15	
			1,692,990 71
Grand total of receipts			3,569,172 88

JOHN T. VINSON,
Auditor and Comptroller District of Columbia.

AUDITOR AND COMPTROLLER'S OFFICE, D. C.,
Washington, November 3, 1880.

APPENDIX C 2.

Statement of the expenditures on account of the government of the District of Columbia from July 1, 1879, to June 30, 1880.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
IMPROVEMENTS AND REPAIRS.				
New work on streets, including materials, 1879	$1,070 15			
Repairs by new pavements, 1879	40,668 87			
Work on sundry avenues and streets, 1880	98,411 92			
Replacement of pavements, 1880	159,110 52			
Repairs by concrete pavements, 1880	98,009 12			
Materials for permit work, 1880	13,527 24			
Total surface work		$410,797 82		
New York avenue, B street, and White lot sewer, 1879	37,512 00			
New York avenue intercepting sewer, 1881	4,537 42			
Tiber arch sewer, 1879	3,304 34			
Boundary street auxiliary sewer, 1879	46,359 81			
Boundary street auxiliary sewer, 1880	19,883 21			
Lateral sewers, 1880	9,011 22			
Total for sewers		120,608 00		
Aggregate for improvements, &c			$531,405 82	
CONSTRUCTING, REPAIRING, AND MAINTAINING BRIDGES.				
Rock Creek bridges, 1879	94 77			
Maintenance of bridges, 1879	1,000 00			
Ordinary care of Benning's, Anacostia, and Chain bridges, 1880	1,200 00			
Replanking and painting Chain bridge, 1880	2,500 00			
Repairing Benning's bridge and its carriage-ways, 1880	2,500 00			
Raising embankments of Anacostia bridge and repairing piers and abutments, 1880	3,000 00			
Aggregate for bridges			10,294 77	
WASHINGTON AQUEDUCT.				
Engineering, maintenance, and repairs, 1880	20,000 00			
Engineering, maintenance, and repairs, 1879	15,000 00			
Aggregate for aqueduct			35,000 00	
CHARITIES AND CORRECTIONS.				
Washington Asylum				
Compensation of employés, 1880	9,201 59			
Contingent expenses, 1880	34,714 05			
Contingent expenses, 1879	1,604 90			
Total for asylum		45,520 54		
Georgetown Almshouse		1,769 62		
Hospital for the Insane:				
Board and clothing of inmates, 1880	15,492 99			
Board and clothing of inmates, 1879	4,210 27			
Total for insane		19,703 26		
Transportation of paupers, &c., 1880	2,541 60			
Transportation of paupers, &c., 1879	99 68			
Total		2,641 28		
Relief of the poor, 1880	14,222 81			
Relief of the poor, 1879	200 00			
Total		14,422 81		
Reform School, 1880		35,608 84		
Columbia Hospital for Women and Lying-in Asylum, 1880		12,000 00		
Children's Hospital, 1880		5,000 00		
Saint Ann's Infant Asylum, 1880		5,000 00		
Industrial Home School, 1880		5,000 00		
National Association for Colored Women and Children, 1880		6,500 00		
Howard's University, 1880		10,000 00		
Women's Christian Association, 1880		5,000 00		
Aggregate for charities, &c			168,166 35	

Expenditures on account of the government of the District of Columbia, &c.—Continued.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
SALARIES AND CONTINGENT EXPENSES.				
Executive office:				
Compensation of employés, 1880	$18,154 90			
Contingent expenses, 1880	2,698 27			
Contingent expenses, 1879	172 05			
Total		$21,025 22		
Auditor and comptroller's office:				
Compensation of employés, 1880	17,603 35			
Contingent expenses, 1880	335 14			
Contingent expenses, 1879	67 70			
Total		18,006 19		
Sinking-fund office:				
Compensation of employés, 1880	2,400 00			
Contingent expenses, 1880	76 75			
Total		2,476 75		
Coroner's office:				
Compensation of coroner, 1880	1,800 00			
Contingent expenses, 1880	93 97			
Contingent expenses, 1879	9 99			
Total		1,903 96		
Collector's office:				
Compensation of employés, 1880	8,951 00			
Contingent expenses, 1880	1,997 87			
Contingent expenses, 1879	642 47			
Total		11,591 34		
Attorney's office:				
Compensation of employés, 1880	8,012 00			
Contingent expenses, 1880	221 53			
Contingent expenses, 1879	126 54			
Revision of the laws, 1880	4,274 81			
Total		12,634 88		
Treasurer's office:				
Compensation of employés, 1880	5,100 00			
Contingent expenses, 1880	104 76			
Contingent expenses, 1879	30 70			
Total		5,235 46		
Superintendent of assessments and taxes office:				
Compensation of employés, 1880	5,520 00			
Contingent expenses, 1880	2,280 00			
Contingent expenses, 1879	670 60			
Total		8,470 60		
Assessors' office:				
Compensation of employés, 1880	2,871 00			
Contingent expenses, 1880	4,245 22			
Contingent expenses, 1879	104 15			
Total		7,220 37		
Inspector of gas and meters' office:				
Compensation of employés		3,000 00		
Inspector of buildings' office:				
Compensation of employés, 1880	5,580 00			
Contingent expenses, 1880	124 56			
Contingent expenses, 1879	15 85			
Total		5,720 41		
Engineer's office:				
Compensation of employés, 1880	47,960 62			
Contingent expenses, 1880	3,824 55			
Contingent expenses, 1879	174 92			
Total		51,960 09		
Compensation of sealer of weights and measures, 1880		80 00		
Fuel, ice, repairs, and miscellaneous items, District offices, 1880	2,999 39			
Fuel, ice, repairs, &c., 1879	74 19			
Total		3,073 58		
Aggregate for salaries, &c			$152,398 85	

Expenditures on account of the government of the District of Columbia, &c.—Continued.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
PUBLIC SCHOOLS DISTRICT OF COLUMBIA.				
Compensation of employés, 1880	$308, 832 18			
Rent of school buildings, 1880	28, 971 30			
Fuel for schools, 1880	7, 212 32			
Repairs to school buildings, 1880	25, 178 23			
Contingent expenses, 1880	21, 106 96			
Contingent expenses, 1879	1, 668 27			
Total current expenses		$392, 969 26		
Erection of Force building, 1880	19, 636 67			
Erection of Peabody building, 1880	25, 961 49			
Total for erection of buildings		45, 598 16		
Aggregate for schools			$438, 567 42	
METROPOLITAN POLICE.				
Compensation of employés, 1880	281, 379 10			
Rent of station-houses, 1880	5, 135 00			
Fuel for station-houses, 1880	905 48			
Repairs to station-houses, 1880	912 49			
Contingent expenses, 1880	12, 169 35			
Contingent expenses, 1879	1, 424 83			
Total			301, 926 25	
FIRE DEPARTMENT AND ALARM.				
Compensation of employés, 1880	73, 167 83			
Repairs to engine-houses, 1880	990 88			
Purchase of horses, 1880	1, 949 89			
Repairs to apparatus, 1880	4, 509 20			
Contingent expenses, 1880	24, 854 18			
Contingent expenses, 1879	1, 778 44			
Two additional engine-houses, 1879	2, 408 96			
Aggregate			109, 659 38	
COURTS, JUDICIAL EXPENSES, &c.				
Police court:				
Compensation of employés, 1880	9, 934 00			
Marshal's fees, 1880	1, 857 50			
Rent of building, 1880	1, 500 00			
Contingent expenses, 1880	1, 106 78			
Contingent expenses, 1879	292 96			
Total for court		14, 691 24		
Judicial expenses, 1880	2, 394 93			
Judicial expenses, 1879	1 25			
Deficiency in judicial expenses, 1880	250 00			
Total judicial expenses		2, 646 18		
Aggregate for courts, &c			17, 337 42	
STREETS.				
Removal of garbage, 1880	10, 355 18			
Removal of garbage, 1879	862 93			
Total		11, 218 11		
Street lamps:				
Lighting, extinguishing, and gas, 1880	107, 969 59			
Lighting, extinguishing, and gas, 1879	12, 923 29			
Repairs to street lamps, 1880	951 36			
Erection of street lamps, 1880	1, 497 98			
Compensation of superintendent and lamp-lighters, 1880	2, 197 10			
Total		125, 539 32		
Parking commission:				
Expenses of commission, 1880	14, 729 59			
Expenses of commission, 1879	384 17			
Total		15, 113 76		

Expenditures on account of the government of the District of Columbia, &c.—Continued.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
STREETS—Continued.				
Current work of repairs:				
Work on streets, alleys, and roads, 1880	$81,484 08			
Work on streets, alleys, and roads, 1879	9,597 85			
Total		$91,081 93		
Sweeping and cleaning:				
Streets and avenues, 1880	31,900 10			
Alleys, 1880	4,796 93			
Total		36,697 03		
Repairs to pumps, 1880		2,494 34		
Cleaning Tiber sewer, 1880	9,984 13			
Cleaning Tiber sewer, 1879	507 34			
Total		10,491 47		
Aggregate for streets			$292,635 96	
HEALTH DEPARTMENT.				
Compensation of employés, 1880	20,600 00			
Contingent expenses, 1880	3,828 06			
Contingent expenses, 1879	421 96			
Aggregate for health department			24,850 02	
INTEREST AND SINKING FUND.				
Interest and sinking fund on the bonded debt, 1880			1,155,583 55	
MISCELLANEOUS AND CONTINGENT EXPENSES DISTRICT OF COLUMBIA.				
Markets:				
Compensation of market-masters, 1880	4,423 35			
Contingent expenses, 1880	2,010 90			
Contingent expenses, 1879	440 43			
Total current expenses		6,874 68		
Rent of market sites and property-yards, 1880	1,146 34			
Rent of market sites and property-yards, 1879	25 00			
Total		1,171 34		
Hay-scales, 1880		111 00		
Rent of District offices, 1880		3,300 00		
General advertising, 1880	4,575 01			
Goneral advertising, 1879	484 02			
Total		5,059 03		
Books for register of wllls, printing checks, damages, &c., 1880	2,641 20			
Books for register of wills, &c., 1879	1,453 01			
Total		4,094 21		
General contingent expenses District of Columbia, 1880		18,058 04		
Aggregate for miscellaneous, &c			38,668 30	
JUDGMENTS.				
Payment of judgments, 1880	2,225 71			
Payment of judgments, 1879	442 10			
Aggregate			2,667 81	
PAYMENT OF CONTRACTORS' WORKINGMEN			21,323 71	
Grand aggregate of general expenses of the District of Columbia				$3,300,485 61
WATER DEPARTMENT.				
Expenses of department	92,313 18			
Interest and sinking fund on water stocks	74,025 00			
Erection of stand-pipe	3,237 47			
Aggregate			169,575 65	

Expenditures on account of the government of the District of Columbia, &c.—Continued.

Title of accounts.	Detail.	Total.	Aggregate.	Grand aggregate.
EMPLOYMENT OF THE POOR, &C.				
Filling grounds south of Capitol (joint resolution February 4, 1880)	$19,955 31			
Filling grounds south of Capitol (joint resolution April 4, 1878)	289 92			
Medicines and medical attendance to poor (joint resolution February 10, 1879)	1,607 37			
Penny-lunch house (joint resolution February 26, 1879)	1,200 00			
Aggregate for poor, &c			$23,052 60	
SPECIAL TRUST FUNDS.				
Redemption of tax-lien certificates	4,206 57			
Redemption of tax-sale certificates	10,220 32			
Redemption of Pennsylvania avenue paving scrip	1,846 20			
Redemption of special tax script	8,619 60			
Refunding erroneously-paid taxes, &c	5,861 35			
Aggregate for specials			30,754 04	
Grand aggregate of water department, special funds, &c				$223,382 29
Grand aggregate of expenditures for all purposes				3,523,867 90

JOHN T. VINSON,
Auditor and Comptroller, District of Columbia.

AUDITOR AND COMPTROLLER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, November 3, 1880.

APPENDIX C 3.

OFFICE OF THE AUDITOR AND COMPTROLLER D. C.,
Washington, September 15, 1880.

GENTLEMEN: I have the honor to submit the following estimate of the expenses of this office for the fiscal year ending June 30, 1882:

One auditor and comptroller	$3,000 00
One bookkeeper	1,800 00
One clerk	1,600 00
Three clerks, at $1,400 each	4,200 00
One clerk	1,200 00
One messenger	600 00
Contingent expenses	400 00
	12,800 00

The estimate is the same as for the fiscal year 1881, except for contingent expenses, which is reduced $200. I respectfully recommend that amount be added to the estimate for one clerk (Mr. Robert Bradley), $1,200, making the estimate for said clerk $1,400. He is a faithful and efficient clerk, and draws and pays out all the warrants, and, in my judgment, the salary will not be greater than the duties performed merit.

Very respectfully,

JOHN T. VINSON,
Auditor and Comptroller District of Columbia.

HON. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

D.—REPORT OF THE COLLECTOR OF TAXES.

OFFICE OF THE COLLECTOR OF THE DISTRICT OF COLUMBIA,
Washington, September 15, 1880.

GENTLEMEN: I have the honor to submit the following report of the transactions of this office during the year commencing July 1, 1879, and ending June 30, 1880, being a statement of receipts from taxes, licenses, &c., as per the following exhibit.

Statement of receipts through the office of the collector of taxes of the District of Columbia for the year ending June 30, 1880.

	1879.						1880.						Total.
	July.	August.	Sept.	October.	Nov.	Dec.	January.	February.	March.	April.	May.	June.	
On account arrears—													
Corporation of Washington	$69 99	$436 67	$1,254 32	$916 16	$2 43	$35 80	$154 26	$16 30	$0 65	$38,275 12	$34 14	$129 65	$41,325 49
Interest	12 05	107 25	308 47	176 83	.....	.....	20 75	.....	.....	110 14	15 48	37 18	788 15
On account general tax levy—													
1871–'72	200 00	18 98	242 61	132 78	.....	.....	30 91	.....	.....	5,916 30	.....	69 56	6,611 14
Interest	79 35	9 82	129 89	79 69	.....	.....	20 14	.....	.....	10 72	.....	58 57	378 18
1872–'73	135 65	839 88	2,375 21	2,466 57	.....	349 34	332 70	50 76	.....	6,113 23	.....	187 97	12,851 31
Interest	50 00	363 63	1,114 97	1,059 63	.....	194 70	218 30	33 45	.....	17 38	.....	78 29	3,130 35
City, 1874	580 08	1,465 02	6,152 04	4,204 50	.....	142 44	962 50	59 92	12 25	4,065 22	2,234 37	974 27	20,852 61
Penalty	174 82	459 57	1,926 23	1,314 34	.....	54 00	434 32	37 58	5 59	207 10	153 86	347 34	5,114 75
Georgetown, 1874	52 80	318 42	346 56	867 42	.....	.....	.....	.....	.....	.....	89 04	.....	1,674 24
Penalty	15 88	98 55	41 73	273 01	.....	.....	.....	.....	.....	.....	57 77	.....	486 94
County, 1874	15 01	197 31	489 09	478 70	.....	.....	.....	4 83	63	36 39	26 21	172 40	1,420 57
Penalty	4 55	60 49	162 65	151 52	.....	.....	.....	7 18	53	23 63	18 52	61 67	490 74
City, 1875	1,312 19	3,909 23	9,787 64	13,832 70	267 42	.....	1,640 55	38 8-	.....	7,517 74	2,615 47	2,227 08	43,148 90
Penalty	367 62	1,093 41	2,805 49	4,066 27	89 74	.....	643 28	22 72	.....	448 79	104 33	755 02	10,396 67
Georgetown, 1875	285 00	399 00	454 83	2,457 00	.....	.....	.....	.....	.....	.....	111 30	500 91	4,208 04
Penalty	80 85	101 15	40 87	725 69	.....	.....	.....	.....	.....	.....	73 55	169 24	1,191 35
County, 1875	.....	367 08	807 44	666 43	.....	.....	7 04	66 06	6 92	28 50	38 84	250 21	2,238 52
Penalty	.....	100 89	236 47	196 96	.....	.....	4 56	40 65	5 58	18 16	16 12	84 41	703 80
City, 1876	830 29	3,447 99	5,724 41	8,944 86	185 52	.....	744 39	189 74	192 26	3,914 73	2,152 78	744 90	27,071 87
Penalty	176 94	748 08	1,278 77	2,002 51	44 64	.....	233 53	98 84	101 62	59 37	188 93	206 65	5,139 88
Georgetown, 1876	153 00	214 68	102 35	2,155 12	40 80	.....	.....	.....	.....	.....	54 83	272 74	2,993 52
Penalty	32 73	46 82	22 73	483 13	9 28	.....	.....	.....	.....	.....	30 33	72 92	697 94
County, 1876	259 16	765 22	841 86	1,245 09	.....	.....	192 75	5 52	76	225 20	140 45	239 84	3,906 85
Penalty	54 29	165 16	193 99	281 06	.....	.....	98 35	3 10	1 24	119 08	74 27	51 57	1,042 11
City, 1877	2,207 78	6,138 87	13,259 20	16,462 74	.....	320 67	1,951 68	436 61	511 05	6,316 23	2,543 17	2,429 01	52,577 01
Penalty	311 87	903 55	2,000 98	2,537 50	.....	45 01	590 34	170 15	185 62	792 80	366 01	477 33	8,381 16
Georgetown, 1877	153 00	321 32	85 83	2,344 48	.....	28 20	.....	.....	.....	68 73	84 36	302 58	3,388 50
Penalty	22 02	47 35	12 90	373 89	.....	4 44	.....	.....	.....	27 98	33 53	42 48	564 59

County, 1877	405 03	1,476 99	1,223 28	1,576 70			225 37	56 88	77 26	126 33	52 34	170 00	5,390 18
Penalty	53 15	216 84	187 73	226 16			85 49	22 20	31 36	48 34	23 49	33 76	928 52
City, 1878	3,842 46	6,135 28	15,729 51	23,035 74		762 05	2,933 65	812 46	2,586 68	7,453 36	4,806 92	6,568 47	74,666 58
Penalty	315 43	529 87	1,463 41	2,180 63		155 09	698 56	203 29	717 99	718 45	1,061 82	956 25	9,000 79
Georgetown, 1878	241 08	449 94	1,193 29	2,808 28		66 06	83 27		15 84	202 51	297 70	227 34	5,585 31
Penalty	20 26	39 11	112 77	267 75		7 63	22 10		4 11	53 56	95 07	31 36	653 72
County, 1878	657 24	675 98	1,241 88	1,772 14		20 70	191 27	14 75	37 50	144 73	103 87	267 66	5,127 72
Penalty	53 27	57 74	112 56	170 08		5 65	51 70	4 31	10 71	44 88	32 88	36 33	580 11
City, 1879	21,431 81	14,447 50	44,634 73	47,678 82		2,420 01	3,887 93	2,466 97	3,695 06	7,883 63	7,174 30	10,680 03	166,400 79
Penalty	366 18	342 73	1,419 44	1,624 53		440 57	751 05	489 00	756 28	783 34	1,324 70	929 13	9,226 95
Georgetown, 1879	1,934 02	1,120 73	1,772 34	3,727 90		57 87	46 56	126 54	265 73	332 28	517 88	24 90	9,926 75
Penalty	31 33	31 16	50 16	128 18		7 10	8 59	19 46	51 08	72 15	125 60	1 87	526 68
County, 1879	1,899 88	893 17	2,360 94	3,100 89		135 27	198 18	125 39	91 86	119 70	278 11	562 06	9,765 45
Penalty	34 07	21 23	77 30	110 01		25 07	40 56	24 82	19 28	27 50	67 17	60 15	507 16
1880, city	$603,852 90												
Less abatement	27,183 08												
					576,669 82	15,662 33	19,086 85	16,623 98	18,334 96	18,612 79	105,915 31	62,795 95	833,701 99
Penalty on same						251 92	569 24	737 88	1,005 83	877 23	2,701 41	3,970 62	10,214 13
1880, Georgetown	$43,331 29												
Less abatement	1,878 53												
					41,452 76	931 12	1,262 67	310 42	884 80	1,007 37	6,120 03	4,236 51	56,205 68
Penalty on same						15 21	45 15	10 51	33 01	56 14	144 88	241 43	546 33
1880, county	$28,909 64												
Less abatement	1,323 47												
					27,586 17	1,086 15	1,098 15	1,145 03	590 69	1,272 09	5,667 12	3,667 88	42,113 28
Penalty on same						15 06	27 90	42 89	29 00	67 49	202 74	249 14	634 22
On account personal tax—													
1880, city	$76,451 72												
Less abatement	3,818 77												
					72,632 95	744 84	1,612 95	1,022 24	888 42	584 86	4,031 80	11,840 27	93,358 33
Penalty on same						10 13	41 27	41 33	41 39	27 07	76 85	985 46	1,223 50
1880, Georgetown	$8,332 88												
Less abatement	390 12												
					7,942 75	218 10	37 13		35 89	3 00	672 92	821 13	9,730 92
Penalty on same						2 51	73		2 80	15	22 00	56 26	84 45
1880, county	$568 67												
Less abatement	26 21												
					542 46	43 13	4 80	10 22		10 50	80 94	2,013 55	2,705 60
Penalty on same						79	15	31		53	1 44	159 92	163 14
1879, city	1,936 55	360 30	2,240 25	1,747 73	4 05			30 00	135 06	24 00		758 34	7,236 28
Penalty	35 04	8 12	73 08	43 91	72			4 08	35 10	3 60		54 52	258 17
1879, Georgetown	102 66	40 80	6 75										150 21
Penalty	1 40	58	16										2 14
1879, county	28 88			4 80								6 75	40 43
Penalty	63			18								54	1 35
1878, city		21 00	614 58	375 41					107 58			557 56	1,676 13
Penalty		1 93	57 30	35 63					53 79			76 74	225 39
1878, Georgetown		4 13											4 13
Penalty		37											37
1877, city	195 00								244 50		60 00	176 25	675 75
Penalty	27 30								180 93		15 30	33 00	256 53

Statement of receipts through the office of the collector of taxes of the District of Columbia, &c.—Continued.

	1879.						1880.						Total.
	July.	August.	Sept.	October.	Nov.	Dec.	January.	February.	March.	April.	May.	June.	
On account special taxes—													
Principal	$1 80	$141 34	$1 309 84	$792 77	$1,374 83	$386 74	$1,313 15	$394 92	$137 82	$20 17	$125 22	$34 82	$6,033 42
Interest	.....	121 62	1,099 89	361 21	1,265 03	340 49	1,125 65	330 04	126 08	18 28	92 25	38 10	4,918 64
On account permit fees	77 50	88 00	88 00	121 13	128 00	35 00	30 00	39 00	54 00	142 00	101 00	91 00	994 63
On account certificates of taxes	80 00	88 50	90 50	74 00	98 50	80 00	114 50	102 00	126 00	118 00	116 50	128 50	1,217 00
On account paving North O street and South Washington railway track	.....	.....	.....	.....	.....	.....	.....	1,150 50	.....	.....	.....	.....	1,150 50
On account paving Washington and Georgetown and Metropolitan Railway tracks	.....	.....	25,964 84	.....	.....	.....	.....	.....	.....	.....	.....	.....	25,964 84
On account paving Pennsylvania avenue, July 8, 1870	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	584 09	.....	584 09
On account paving Pennsylvania avenue, July 19, 1876	.....	.....	.....	1,466 91	.....	.....	.....	.....	1,625 82	.....	202 63	205 68	3,501 04
On account tax sales, November 25, 1879	.....	.....	.....	.....	.....	90 90	.....	290 10	.....	.....	.....	.....	381 00
On account sand sold from Tiber sewer	.....	.....	.....	.....	.....	.....	709 87	.....	.....	.....	.....	.....	709 87
On account of material furnished	.....	17 74	16 61	40 89	14 11	.....	94	94	18 80	20 28	31 90	2 82	165 03
On account water-rents, &c	39,546 83	17,845 84	10,875 80	7,704 26	11,028 26	536 94	1,719 02	1,566 64	46,636 19	23,499 46	15,183 21	10,168 37	186,310 82
On account water-main tax advertised	677 94	2,314 77	1,817 53	.....	259 14	.....	506 53	133 99	327 09	1,380 68	480 13	30 71	7,928 51
On account interest and penalties on same	128 58	308 60	334 38	.....	81 71	.....	219 73	44 70	125 82	755 00	164 69	19 13	2,182 34
On account sale of old material (old iron, &c.)	.....	.....	.....	.....	.....	.....	.....	.....	.....	133 37	.....	.....	133 37
On account Washington redemption fund	.....	959 26	173 71	390 09	189 16	.....	201 00	540 77	369 96	1,286 93	3,217 44	328 83	7,657 15
On account interest on same	.....	28 27	7 65	18 01	9 56	.....	13 46	44 01	32 61	126 94	323 00	36 67	640 18
On account auctioneer's returns on sales	.....	.....	.....	.....	9 69	.....	25 39	16 46	56 50	73 45	.....	.....	181 49
On account forfeiture of contract Seventh street road	.....	.....	.....	23 26	.....	.....	.....	.....	.....	.....	.....	.....	23 26
On account sale of annual privilege fish wharves	.....	.....	.....	.....	.....	.....	.....	.....	463 35	.....	.....	.....	463 35
On account error in "Monthly Statement" for September, 1879	.....	.....	.....	02	.....	.....	.....	.....	.....	.....	.....	.....	02
On account of dog-tax	4,262 50	3,472 25	630 25	75 50	71 85	15 93	21 01	7 93	7 17	20 18	11 44	1 00	8,597 01
On account licenses	3,739 64	2,634 99	1,693 76	2,391 00	60,461 25	7,115 22	10,954 54	4,757 48	2,884 64	16,855 68	4,419 81	2,732 85	120,640 96
On account advertising tax-arrears—													
1875	.....	.....	.....	.....	20 16	.....	52 10	5 10	4 80	32 49	50 56	.....	165 21
1876	.....	.....	.....	.....	.....	1 75	16 85	4 70	6 45	10 45	21 05	.....	61 25
1877	.....	.....	.....	.....	.....	2 56	15 21	5 40	8 24	17 81	22 93	.....	72 15
1878	20	.....	.....	.....	.....	7 00	24 04	8 75	21 75	22 66	50 00	6 21	140 61

1879	.....	.....	.....	.....	168 75	62 65	48 54	30 50	42 70	41 75	76 67	.....	471 56
Total	89, 754 58	78, 042 07	170, 873 75	174, 971 10	802, 651 51	32, 934 14	58, 403 25	35, 101 18	85, 174 98	159, 445 70	178, 206 77	138, 000 61	2, 003, 559 64
PER CONTRA, CR.													
By cash deposited with treasurer District of Columbia	87, 429 18	54, 253 93	89, 247 40	102, 031 13	803, 800 24	31, 875 06	48, 930 63	33, 447 72	111, 129 82	150, 067 91	175, 013 87	127, 456 39	1, 814, 683 28
By drawbacks deposited with same	1, 806 05	23, 698 78	52, 363 91	72, 019 18	.....	1, 803 88	9, 563 52	1, 653 46	.....	8, 629 34	3, 186 69	10, 450 58	185, 175 39
By tax-liens deposited with same	306 85	89 36	203 55	627 85	.....	167 48	.....	.....	.....	720 85	33 81	93 64	2, 243 39
By tax-sale certificates deposited with same	.....	.....	1, 164 44	293 14	.....	.....	.....	.....	.....	.....	.....	.....	1, 457 58
Total	89, 542 08	78, 042 07	142, 979 30	174, 971 30	803, 800 24	33, 846 42	58, 494 15	35, 101 18	111, 129 82	159, 418 10	178, 234 37	138, 000 61	2, 003, 559 64

RECAPITULATION.

Amount general tax on real estate collected during the year ending June 30, 1880	$1, 433, 152 30
Amount personal tax collected during the year ending June 30, 1880	115, 577 78
Amount miscellaneous items collected during the year ending June 30, 1880	373, 548 14
Amount penalty on general tax collected during the year ending June 30, 1880	71, 325 22
Amount penalty on personal tax collected during the year ending June 30, 1880	2, 215 04
Amount penalty on miscellaneous items collected during the year ending June 30, 1880	7, 741 16
Total collected during the year ending June 30, 1880	2, 003, 559 64

This office, at the beginning of the fiscal year commencing July 1, 1879, was debited, by the assessor and treasurer with arrears of general tax in the amount of $1,290,527.30. The above exhibit shows that said arrearage account has been credited with upwards of a half million dollars ($501,152.10) during the year ending June 1, 1880, and the net balance, $750,000.00 (amount exclusive of some exempt accounts carried), will, no doubt, be greatly reduced before the expiration of the privilege afforded by Congress of payment of said arrears without penalties and other costs incurred.

The personal tax arrearage account has also been materially reduced during the same period. From the above exhibit it will be seen that on the 1st of November, 1879, this office was debited by the treasurer and assessor with $1,297,932.25, on account of general tax for the year ending June 30, 1880, which amount has been credited during the fiscal year with the amount collected in the sum of $932,020.95, and in the sum of $30,385.08—the amount of 5 per cent. abatement allowed by law on receipts during the month of November, 1879, leaving an uncollected balance of $335,526.22. It was, at the same time, debited with the personal tax levy for the current fiscal year, in the amount of $171,321.46, against which has been placed the following credits: by amount collected, $105,794.85; by the 5 per cent. abatement allowed by law for amounts received during the month of November, 1879, $4,235.11; by the discharge of the amount against national banks, $11,356.34; leaving a ballance due at the end of the fiscal year of $49,935.16.

The following items in the above exhibit of receipts were collected through this office for use of third parties holding the liens representing the taxes. Amount special taxes, principal and interest, $10,950.06. Amounts received on account of paving Pennsylvania avenue, under acts of Congress approved, respectively, July 8, 1870, and July 19, 1876, aggregating $4,085.13; Washington redemption fund, principal and interest, $8,297.33, also, a small percentage of the amount collected on account of general taxes for the years ending, respectively, June 30, 1872 and 1873, represented by tax liens; the exact amount of which can only be shown by the account of the auditor and comptroller of the District of Columbia.

The attention of the honorable Commissioners is again respectfully called to the loss of revenue derived from tax on dogs. For the fiscal year ending June 30, 1879, $10,505.12 was received. For the fiscal year ending June 30, 1880, $8,597.01 was received; up to date of making up this report (September 15, 1880), there have been sold only 1,260 tags, as against 4,152 tags for a corresponding date and time last year. The legislation asked for in our last report is needed, else in your future estimates of receipts and appropriations, this item of receipt will no longer be an element.

In view of the amount of personal attention that has to be given to the collection of personal taxes, and other arrears of tax, it is absolutely necessary that the clerk cut off from the regular force of this office be restored, and that provision be made for the employment of temporary clerical force for the preparation of the necessary tax lists, whose aggregate service shall not exceed twelve months. This suggestion is made for the purpose of efficiency and proper discharge of the duties of the office.

Respectfully submitted.

JOHN F. COOK,
Collector, District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX D 1.

OFFICE OF COLLECTOR OF TAXES,
DISTRICT OF COLUMBIA,
Washington, September 15, 1880.

SIRS: In compliance to your request for an estimate of the amount required for the support of this office for the fiscal year ending June 30, 1882, I have the honor to submit the following:

Salaries:	
Collector of the District of Columbia	$4,000
Clerk	1,800
Clerk	1,500
Clerk	1,400
Clerk	1,200
Messenger	720
Contingent expenses, including stationery, printing books, car fare, &c	2,500
Total	13,120

Very respectfully,

JOHN F. COOK,
Collector District of Columbia.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

E.—REPORT OF THE TREASURER AND ASSESSOR.

OFFICE OF TREASURER AND ASSESSOR,
Washington, D. C., September 15, 1880.

GENTLEMEN: In obedience to your communication of August 15, I have the honor to furnish the following statement of the business conducted by this office during the last fiscal year, viz, July 1, 1879, to June 30, 1880:

TREASURER'S BRANCH.

Receipts.

From tax-collector:		
For general and personal taxes, trust funds, &c	$1,483,305 25	
For licenses	120,639 67	
For special railroad taxes	27,115 34	
For water fund	196,382 41	
		$1,827,442 57
Deduct amount received July 1 and 2, 1879, which belongs to fiscal year 1879		12,759 29
		1,814,683 28
From claim of District of Columbia *vs.* J. S. Wilson		946 92
From school-fund, interest on $60,385 corporation stock to date of redemption		2,224 71
From Washington Market (five quarters)		9,375 00
From Georgetown Market, rents		1,208 96
From Eastern Market, rents		3,280 30
From Western Market, rents		4,489 20
From Northern Market, rents		5,764 56
From assistant attorney District of Columbia, collection fines, &c		1,246 38
From bills receivable, Western Market, &c		932 70
From rents, hay-scales, &c		2,630 57
From health officer for pound fees, June, 1879		78 25
From building permits		3,577 50
From police court, United States fines		5,009 93
From police court, District of Columbia fines		7,532 21

From United States marshal, criminal-court fines		$176 40
From property clerk, sale of old material		1,132 79
From inspector of buildings for sale of old house		20 00
From Washington Asylum sales		29 15
From claim *vs.* W. H. Slater		200 00
From water fund, balance unexpended		119 71
From George W. Beall, advertising for 1875		416 09
From George W. Beall, repayment to appropriation for general advertising	$275 30	
From repayment to appropriation, fuel, public school, Linthicum Institute	35 24	
From repayment to appropriation, fuel, Peabody library	73 75	
From repayment, error in audits by auditor	23 62	
From repayment to appropriation, judicial expenses	272 50	
From repayment to appropriation for paupers (J. Connell)	79 20	
From repayment to appropriation, health-office	200 00	
From repayment to appropriation, hospital for the insane	10 00	
From repayment to appropriation, markets	7 35	
From repayment to appropriation, engineer department	1,365 24	
From repayment to appropriation, police department	30 00	
From repayment to appropriation, public schools	183 30	
		2,555 50
From condemnation of alleys		2,266 79
		1,869,896 90
From amount deposited by United States Treasurer, premium on 5 per cent. District bonds, act June 10, 1879		8,552 06
		1,878,448 96
Deduct condemnation of alleys		2,266 79
Available receipts		$1,876,182 17

All these receipts were duly paid into the Treasury of the United States, as required by law.

Drawback certificates and erroneous tax-lien and tax-sales certificates, amounting to $188,876.38, have been deposited with me by the collector of taxes, District of Columbia, and canceled by me. They were received by him for taxes that were due previous to July 1, 1877, and the arrears of taxes have to that extent been diminished.

The large amount of water rent collected during last year is attributable to two collections, one during July and August, 1879, for the fiscal year, which was declared by the court to have been illegal, and the overcharged amount ordered to be refunded by this office, requiring 6,141 checks, and a repayment to payers of water rent of $30,880.29. Other amounts have since been refunded by the auditor on the same account. The other collection was made for the whole year, from January 1, 1880, to January 1, 1881, as required by law.

LICENSES

to the number of 2,847 were issued, amounting to $120,639.57, which was paid in as follows:

By apothecaries	$458 35
By auctioneers	2,062 35
By book agents	290 92
By bar-rooms (see dealers in liquor by retail)	
By banks	283 66
By brewers	233 34
By bill posters	20 00
By billiard and other tables	1,208 22
By commercial agents	19,558 51
By cattle brokers	125 00
By commission merchants	1,560 03
By claim agents	142 50
By circuses and entertainments	2,258 67
By dealers in old barrels	59 17

By dealers in ice	170 34
By dealers in liquor by wholesale	8,620 93
By dealers in liquor by retail	58,690 38
By dealers in junk	1,886 70
By fire and life insurance companies	505 25
By hacks and vehicles	1,491 63
By hotels	2,357 51
By insurance agents	4,849 69
By intelligence offices	16 68
By itinerant vender of drugs	100 00
By livery stables	1,960 24
By manufacturers of gas	832 25
By notaries public	170 00
By peddlers	1,264 27
By pawnbrokers	1,250 00
By produce dealers	4,076 72
By photographers	436 67
By restaurants	3,219 59
By theaters	480 00
Total	$120,639 57

This amount exceeds the collections of last year by the sum of $8,825.64, which has been obtained from bar-rooms, by the energy of the inspector of licenses.

A large number of persons who have heretofore been licensed as commercial agents have this year escaped, owing to a decision that as "owners" they were not liable. The receipts would otherwise have been much larger from this class of licenses, and the law ought to be changed so as to include *owners* as well as agents.

I think the revenue from licenses would be greatly increased if an additional inspector could be appointed, as the police officers can give little or no time to this matter, particularly as they now have the additional duty to perform of water inspectors.

ASSESSMENT BRANCH.

Statement of the real estate of the District of Columbia on the 30th of June, 1879, after the correction of the books.

Washington:		
Taxable	$76,085,940	
District of Columbia, property of	1.005,700	
Exempt from taxation	4,015,076	
United States, property of	78,941,567	
		$160,048,283
Georgetown:		
Taxable	5,291,313	
District of Columbia, property of	99,345	
Exempt from taxation	349,152	
United States, property of	72,427	
		5,812 237
County:		
Taxable	6,603,103	
District of Columbia, property of	34,499	
Exempt from taxation	811,259	
United States, property of	3,142,580	
		10,591,441
Total		$176,451,961

To this add the assessed value of new improvements, not heretofore assessed, after deducting the value of those which have been demolished and burnt down:

In Washington, 511 houses	$1,210,340
In Georgetown, 41 houses	22,800
In county, 128 houses	101,150
	$1,334,290

(See Tables K, L, and M.)

Corrections of tax-books:

Changes of property to taxable from exempt, &c.

In Washington	$39,670
In Georgetown	32,117
In county*	289,781
	$361,568

And the assessed value of real estate in the District on the 30th of June, 1880, is $179,010,543, of which $88,953,078 is taxable. (See Table A.)

AMOUNT OF TAX FOR 1880–'81.

Washington City, $77,256,610, at $1.50	$1,158,849 15
Georgetown, $5,282,096, at $1.50	79,231 44
County, $1,949,005, at $1.50	29,235 08
County, $4,465,367, at $1 (agricultural)	44,653 67
Total tax	$1,311,969 34

(See Table B.)

ARREARS OF TAXES.

Arrearages of general taxes June 30, 1879	$1,293,222 66
Arrearages of personal taxes June 30, 1879	238,292 58
	1,531,515 24
Arrears of general taxes June 30, 1880	$1,061,160 79
Arrears of personal taxes June 30, 1880	233,382 13
	1,294,542 92
Decrease of general tax	$232,061 87
Decrease of personal tax	4,910 45
Total decrease	$236,972 32

(See Tables C, D, and E.)

The real decrease of personal tax is more fully shown by Table G to be $57,609.64.

PERSONAL TAX.

During the month of June a vigorous effort was made by the Commissioners by sending out notices and bills, and a much larger amount of these taxes was collected than was anticipated. Owing, however, to some defects in the present law, the collector has delayed to destrain, and many old accounts remain on the books, upon which nothing can be realized, for the reason that some of the delinquents have left the city, some have died and their property has been distributed, others have failed in business, &c.

I recommend that in future peremptory proceedings against all delinquents be required by law to be taken during the month of July in every year, and that power be obtained to adjust all old accounts upon satisfactory information being obtained in relation thereto. Our citizens complain grievously about this tax, which they call "inquisitorial," "iniquitous," "unjust," &c., and in many cases are loth to give us any information upon which any just idea can be formed as to their taxable property.

A large number of persons have placed their funds in stocks and United States bonds that are exempt, and claim that there is nothing

* This is the personal of the Baltimore and Ohio and Potomac Railroads transferred to personal ledgers.

taxable but household effects, merchandise, and bonds and mortgages; and, in order to escape taxation on mortgages, they claim their residences in adjoining States. It is urged that the tendency of the present law is to drive capital out of the District. I still adhere to my opinion in regard to notes secured by real estate and as expressed in my report of last year, to which I beg to call your attention. This class of securities is free from taxation in Maryland. The returns for this year show a large diminution from those of the last and previous years, notwithstanding greater exertions on our part to obtain a better result. The people are anxious to be allowed to substitute a complete system of licenses for the personal tax, leaving nothing taxable but real estate and household chattels. I agree with them that more money will be realized by a general license law than under the present law and more equitably and satisfactorily.

It will be observed in this connection that licenses are collected in the beginning or before the business is commenced, and taxes are not delinquent until the end of the year for which the assessment is made, when much of the property has been dissipated and the tax-payer is often not to be found.

The assessment for 1881 on personal property is $10,895,712; tax, $163,435.68. (See Tables F and G.)

PARSONAGES.

There are in the District some 30 buildings belonging to the congregations of the several churches, which are occupied by the pastors of these churches.

Upon an examination of the books it is found that a large amount of unpaid taxes for many years stands charged against them, and in only a few cases have the taxes been paid at all, and they not continuously. (See Table X.)

It is claimed that these parsonages are built or bought expressly for the use of the churches, and as a necessary appendage thereto, and that what would otherwise be a rental is reckoned as a part of the pastor's salary. The corporation law of 1860 makes no provision as to their exemption from taxation, but "houses of public worship" are excepted to, and assessors under that law construed it liberally by including the ground and other buildings belonging to the church.

In a few cases the parsonage building, but not the ground, was assessed during the time from 1860 to 1870, and in many cases there was an assessment made but not carried out on the tax-books.

The act of Congress of June 17, 1870, provides—

> From and after the passage of this act * * * all churches and school-houses, and all buildings, grounds, and property appurtenant thereto and used in connection therewith in the District * * shall be exempt from any and all taxes or assessments, national or municipal.

Under this law some parsonages are marked on the tax-books, "exempt," and some "taxable."

The law of 1874, which made no exemption even as to churches, caused all this property to be put on the tax-books, and under that and subsequent laws, parsonages are clearly taxable, and I recommend that authority be obtained to settle all these taxes by compromise, and it would seem to be just that all such taxes should be remitted previous to 1875. Indeed, a compulsory payment of all the taxes charged would be a confiscation of the full value of the property.

The tax-books should in some way be relieved from these and other

charges which are put down as valuable assets; they can never be realized.

I further recommend that a law be passed, similar to that of 1870, including parsonages by name ("property appurtenant thereto, *including parsonages*, and used in connection therewith") in the number of exemptions.

DELINQUENT TAXES.

The extension of the provisions of the act of June 27, 1879, to January next has been and will be a great boon to our delinquent tax-payers, who in almost all cases are delinquent from necessity and not from choice. I respectfully recommend that the discount for prompt payment of taxes may be continued at 5 per cent. for November payments, 4 per cent. for December, 3 per cent. for January, 2 per cent. for February, and 1 per cent. for March, charging no penalty (and that not more than 1 per cent. per month) until May, when the second installment is payable; and that the interest be only 6 per cent. per annum on all taxes after the property is advertised for sale. All who are able to pay will avail themselves of this privilege, and those who cannot ought not to be charged so exorbitantly for their misfortunes, as is now done under the present law.

CORRECTIONS OF TAX BOOKS AND ACCOUNTS.

The Commissioners ought to be empowered to correct errors discovered on the assessment books in the description of property, in the ownership of property, and errors in calculations, also to make deductions, in whole or in part, in cases of losses by fire or flood, or of perishable property, when satisfactory evidence of such loss is given.

NEW DISTRICT OFFICES.

The books and records of the office are accumulating rapidly, as the city is growing, and the room for them is diminishing to such an extent that a new office is very desirable. I venture to suggest that a building suitable to all the wants of the District government could be erected in a better and more central location, at a cost of much less than the capital of the rent now paid, and this building should be fire-proof. A fire occurring in our present building would doubtless destroy valuable records, which could not be replaced.

TAX-SALES BOOKS.

As the law now stands, I see no necessity for the set of sales-books which are annually made after each sale at great expense. These books encumber the office, are rarely looked at, and are liable to errors at every transcription. When sales are made the entries can readily be made in the tax-books, where one examination would suffice.

COUNTY MAPS.

Mr. Carpenter, late assessor and surveyor of the county, has taken the contract to furnish a complete set of maps of the county, under the appropriation made for that purpose by the last Congress, and I have no doubt it will be of great assistance towards an accurate assessment, although it can hardly be completed in time for next year's assessment.

CERTIFICATES OF BACK TAXES.

The assistant assessor, with one or two clerks, is and has been constantly occupied in making out certificates as to arrears of taxes, under the law approved February 6, 1879.

These certificates, at 50 cents each, produced the sum of $1,217, during the last fiscal year, and the average receipts from that source amount to about $100 per month only; it involves much labor and little revenue, but is a requirement of the law, and I recommend that the foe be increased to one dollar per lot.

RIVER-FRONT PROPERTY.

In obedience to your directions, I have assessed the buildings and wharves on the river front, located on ground which is believed to belong to the United States Government, and I trust that the property may be sold or surrendered to the holders, so that the real estate may also bear its share of taxation. The personalty above named is valued at $78,350 for the assessment of this year.

MODE OF ASSESSING.

The additional pay granted to the clerks in this office has been a great incentive, and much more work has been accomplished than heretofore, and we have been able to make the assessment of new property, and also upon personal property, with the aid of only two additional men for two months. I am still of the opinion that an assessment can be made with greater satisfaction by adopting some such plan as that proposed in my last report, from which I beg leave to quote:

In order to a better performance of this highly responsible duty, one from which nearly all the revenues of the District are derived, I venture to suggest that there should be appointed seven citizens, with respectable compensation, as subordinate assessors, selected for their intelligence, integrity, and industry, who should be permanent residents centrally located in the districts allotted to them. They should give their time to the study of values of property in their districts, take cognizance of all changes by erection or demolition or removal, deliver the schedules for personal taxes and receive returns of the same as notaries, make weekly reports to the treasurer and assessor's office, and annually, during the month of August, they should sit daily as a board of appeals with the treasurer and assessor of the District of Columbia.

It is believed that the increase of the tax list which would arise from the adoption of some such plan as the foregoing would be manifold greater than the expense occasioned thereby, and the work would be accomplished with greater satisfaction and more equitably than now.

The assistant assessor, chief clerk, and other clerks have attended faithfully to their duties during the year, and Mr. Ros A. Fish, the chief clerk, has prepared the tables which accompany this report, and they are well worthy of attention, perusal, and examination.

I regret that our force has been crippled by dropping one clerk from the estimate made by me in my last report. It remains to be seen how the work can be accomplished when our very busy season commences, and I fear that the office will require aid from some quarter.

I invite particular attention to Tables N to V, showing the location and assessed value of property exempt, belonging to the District and United States Governments, and taxable.

I submit herewith an estimate of expenses of this office for the fiscal year ending June 30, 1882.

Very respectfully,

ROBT. P. DODGE,
Treasurer and Assessor.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

List of tables accompanying treasurer and assessor's report for the fiscal year ending June 30, 1880.

TABLE A.—Statement of assessed value of real estate, June 30, 1880.
TABLE B.—Statement of tax and assessed value of real estate in the District of Columbia for fiscal year ending June 30, 1881.
TABLE C.—Statement of arrears of taxes June 30, 1880.
TABLE D.—Comparative statement of arrears of general taxes, 1879 and 1880.
TABLE E.—Statement of personal taxes in arrears on 30th June, 1880.
TABLE F.—Statement of personal assessment for fiscal year ending June 30, 1881.
TABLE G.—Statement of personal tax from 1876 to 1880, inclusive.
TABLE H.—Value of property in District of Columbia as assessed for taxation from 1871 to 1881, inclusive.
TABLE I.—Rate of taxation in the District of Columbia from 1871 to 1881, inclusive, per $100.
TABLE K.—Statement showing the location and assessed value of new improvements for fiscal year ending 30th June, 1881, Washington City.
TABLE L.—Statement showing the location and assessed value of new improvements for fiscal year ending 30th June, 1881, Georgetown.
TABLE M.—Statement showing the location and assessed value of new improvements for the fiscal year ending 30th June, 1881, Washington County.
TABLE N.—Property exempt from taxation, Washington City.
TABLE O.—Property belonging to District of Columbia in Washington City.
TABLE P.—Property belonging to the United States in Washington City.
TABLE Q.—Property belonging to District of Columbia in Georgerown.
TABLE R.—Property exempt from taxation, Georgetown.
TABLE S.—Property belonging to the United States in Georgetown.
TABLE T.—Property belonging to District of Columbia in Washington County.
TABLE U.—Property exempt from taxation in Washington County.
TABLE V.—Property belonging to the United States in Washington County.
TABLE W.—Assessed value of the ground and improvements of each square in the city of Washington.
TABLE X.—Statement of parsonage property.
TABLB Y.—Population of the District of Columbia.

TABLE A.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., June 30, 1880.

Statement of assessed value of real estate June 30, 1880.

	Ground.	Improvements.	Total.
WASHINGTON.			
Taxable	$38, 954, 320	$38, 302, 290	$77, 256, 610
District of Columbia	262, 017	831, 900	1, 093, 917
Exempt from taxation	1, 072, 339	3, 116, 650	4, 188, 989
United States	33, 981, 451	46, 219, 653	80, 201, 104
Total	74, 270, 127	88, 470, 493	162, 740, 620
GEORGETOWN.			
Taxable	2, 119, 921	3, 162, 175	5, 282, 096
District of Columbia	19, 350	99, 500	118, 850
Exempt from taxation	54, 052	295, 100	349, 152
United States	12, 660	59, 767	72, 427
Total	2, 205, 983	3, 616, 542	5, 822, 525
WASHINGTON COUNTY.			
Taxable	4, 615, 537	1, 798, 835	6, 414, 372
District of Columbia	4, 599	33, 400	37, 999
Exempt from taxation	268, 197	584, 250	852, 447
United States	384, 708	2, 757, 872	3, 142, 580
Total	5, 273, 041	5, 174, 357	10, 447, 398

RECAPITULATION.

Taxable:		
Washington City	$77,256,610	
Georgetown	5,282,096	
County	6,414,372	
		$88,953,078
District of Columbia property:		
Washington	1,093,917	
Georgetown	118,850	
County	37,999	
		1,250,766
Exempt from taxation:		
Washington	4,188,989	
Georgetown	349,152	
County	852,447	
		5,390,588
United States property:		
Washington	80,201,104	
Georgetown	72,427	
County	3,142,580	
		83,416,111
Total in District of Columbia		179,010,543

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE B.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., October 31, 1880.

Statement of tax and assessed value of taxable real estate in the District of Columbia for the fiscal year ending June 30, 1881.

Washington City:			
Ground	$38,954,320		
Improvements	38,302,290		
			$77,256,610
Georgetown:			
Ground	2,119,921		
Improvements	3,162,175		
			5,282,096
Washington County:			
Suburban:			
Ground	$1,153,315		
Improvements	795,690		
		1,949,005	
Agricultural:			
Ground	3,462,222		
Improvements	1,003,145		
		4,465,367	
			6,414,372
Total			88,953,078

RECAPITULATION.

Ground, $42,227,556, at $1.50	$633,413 34
Ground, $3,462,222, at $1.00	34,622 22
Improvements, $42,260,155, at $1.50	633,902 33
Improvements, $1,003,145, at $1.00	10,031 45
Total tax	1,311,969. 34

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE C.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., August 14, 1880.

Statement of arrears of taxes, June 30, 1880.

General taxes:		
1845 to 1874	$97,638 74	
1874–'75	117,120 87	
1875–'76	63,959 05	
1876–'77	108,555 85	
1877–'78	133,978 03	
1878–'79	185,391 63	
1879–'80	354,516 62	
		$1,061,160 79
Personal taxes:		
1876–'77	40,100 43	
1877–'78	88,588 58	
1878–'79	51,993 93	
1879–'80	52,699 19	
		233,382 13
Total debt, June 30, 1880		$1,294,542 92

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE D.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., August 14, 1880.

Comparative statement of arrears of general taxes, 1879 *and* 1880.

	Arrears June 30, 1879.	Arrears June 30, 1880.	Decrease of debt in 1880.
1845 to 1864	$6,384 98		
1865	1,869 23		
1866	2,608 15		
1867	4,038 02		
1868	7,314 29		
1869	9,751 87		
1870	13,706 16		
1871–'72	6,905 02		
1872–'73	34,829 32		
1873–'74	104,205 94		
	191,612 98	$97,638 74	$93,974 24
1874–'75	197,262 51	117,127 87	80,141 64
1875–'76	106,823 12	63,959 05	42,864 07
1876–'77	181,963 23	108,555 85	73,407 38
1877–'78	231,893 30	133,978 03	97,915 27
1878–'79	383,667 52	185,391 63	198,275 89
	1,293,222 66	706,644 17	586,578 49
1879–'80	1,297,932 25	354,516 62	943,415 63
	$2,591,154 91	$1,061,160 79	$1,529,994 12

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE E.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., June 30, 1880.

Statement of arrears of personal taxes in the District of Columbia, June 30, 1880.

Washington City:		
Tax of 1877	$34,030 10	
Tax of 1878	81,646 73	
Tax of 1879	44,033 83	
Tax of 1880	46,664 32	
		$206,374 98
Georgetown:		
Tax of 1877	3,951 16	
Tax of 1878	5,001 94	
Tax of 1879	4,628 43	
Tax of 1880	3,914 52	
		17,496 05
Washington County:		
Tax of 1877	2,119 17	
Tax of 1878	1,939 91	
Tax of 1879	3,331 67	
Tax of 1880	2,120 35	
		9,511 10
Total		$233,382 13

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE F.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., October 31, 1880.

Statement of personal assessment for the fiscal year ending June 30, 1881.

Washington City:		
1,091 voluntary returns	$5,575,015	
2,178 arbitrary returns	3,938,752	
		$9,513,767
Georgetown:		
182 voluntary returns	335,263	
309 arbitrary returns	534,820	
		870,083
County:		
85 voluntary returns	190,851	
230 arbitrary returns	321,011	
		511,862
Total		10,895,712
Tax at $1.50 per $100		$163,435 68

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE G.

Statement of personal tax to June 30, 1880.

Year to June 30—	Location.	Number.		Returns.		Total assessment.	Total tax.	Tax collected.			Deduct assessed to national banks.
		Voluntary.	Arbitrary.	Voluntary.	Arbitrary.			To June 30, 1879.	To June 30, 1880.	Total collected.	
1876–'77	Washington	3028	350	$11,954,614	$1,188,960	$13,143,574	$197,153 61	$147,182 43	$932 28	$148,114 71	$15,008 80
1877–'78	....do	2583	1606	11,007,381	4,258,843	15,266,224	228,993 36	135,835 20	1,901 52	137,736 72	9,609 91
1878–'79	....do	3184	1378	9,982,407	1,562,569	11,544,976	173,174 64	110,124 15	7,494 45	117,618 60	11,522 21
1879–'80	....do	1728	1963	7,002,257	2,927,650	9,929,907	148,948 61	.....	94,581 83	94,581 83	7,702 46
1876–'77	Georgetown	261	52	1,271,212	488,198	1,759,410	26,391 15	18,796 01	.....	18,796 01	3,643 98
1877–'78	....do	306	251	1,126,137	427,369	1,553,506	23,302 59	14,656 67	.....	14,656 67	3,643 98
1878–'79	....do	398	147	1,052,396	282,942	1,335,338	20,030 07	11,602 32	145 44	11,747 76	3,653 88
1879–'80	....do	242	231	678,491	480,427	1,158,918	17,383 77	.....	9,815 37	9,815 37	3,653 88
1876–'77	County	235	54	377,333	139,556	516,889	7,753 34	5,634 17	.....	5,634 17	.....
1877–'78	....do	185	126	312,362	106,959	419,321	6,289 82	4,345 41	4 50	4,349 91	.....
1878–'79	....do	174	153	286,844	169,762	456,606	6,849 09	3,468 73	48 69	3,517 42	.....
1879–'80	....do	51	155	83,313	249,293	332,606	4,989 09	.....	2,868 74	2,868 74	.....
1876–'77	Totals	3524	456	13,603,159	1,816,714	15,419,873	231,298 10	171,612 61	932 28	172,544 89	18,652 78
1877–'78	....do	3074	1983	12,445,880	4,793,171	17,239,051	258,585 77	154,837 28	1,906 02	156,743 30	13,253 89
1878–'79	....do	3756	1678	11,321,647	2,015,273	13,336,920	200,053 80	125,195 20	7,688 58	132,883 78	15,176 09
							689,937 67	451,645 09	10,526 88	462,171 97	47,082 76
1879–'80	....do	2021	2349	7,764,061	3,657,370	11,421,431	171,321 47	.....	107,265 94	107,265 94	11,356 34
							861,259 14	451,645 09	117,792 82	569,437 91	58,439 10

Due June 30, 1880	$180,682 94
Balance 1880, tax	52,699 19
Total debt	233,382 13

ROBERT P. DODGE,
Treasurer and Assessor.

TREASURER AND ASSESSOR'S OFFICE, *August* 14, 1880.

TABLE H.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., October 30, 1880.

Value of property in the District of Columbia as assessed for taxation from 1871 *to* 1881 *inclusive.*

Years.	Washington.	Georgetown.	County.	Total.
1871	$66, 818, 886	$6, 213, 467	$6, 965, 101	$79, 997, 454
1872	62, 421, 331	6, 036, 434	6, 500, 000	74, 957, 765
1873	72, 880, 380	6, 366, 488	8, 623, 056	87, 869, 924
1874	80, 539, 782	6, 272, 010	9, 621, 280	96, 433, 072
1875	82, 292, 906	6, 312, 099	9, 270, 036	97, 875, 041
1876	78, 818, 934	5, 849, 317	8, 784, 433	93, 452, 684
1877	81, 246, 847	5, 953, 932	8, 728, 622	95, 929, 401
1878	83, 101, 484	6, 028, 041	8, 480, 365	97, 609, 890
1879	75, 555, 801	5, 242, 224	6, 693, 417	87, 491, 442
1880	76, 085, 940	5, 291, 313	6, 603, 103	87, 980, 356
1881	77, 256, 610	5, 282, 096	6, 414, 372	88, 953, 078

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE I.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., July 1, 1880.

Rate of taxation in the District of Columbia from 1871 *to* 1881 *inclusive, per* $100.

Years.	Washington.	Georgetown.	County.	
			Suburban.	Agricultural.
1871–'72	$1 70	$0 95	$0 85	.....
1873	1 70	1 70	1 00	.....
1874	2 00	2 00	1 58	.....
1875	3 00	2 50	2 00	.....
1876	1 50	1 50	1 50	.....
1877	1 50	1 50	1 50	.....
1878	1 50	1 50	1 50	$1 25
1879	1 50	1 50	1 50	1 00
1880	1 50	1 50	1 50	1 00
1881	1 50	1 50	1 50	1 00

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE K.

TREASURER AND ASSESSOR'S OFFICE,
Washington, August 20, 1880.

Statement showing the location and assessed value of new improvements for the fiscal year ending June 30, 1881.

WASHINGTON CITY.

Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.
1	15	$500	140	of 34	$600		s. 61	$1,000
5	4	300	141	of 13	900		s. 62	1,000
24	of 22	100	151	s. 1	2,500		s. 88	1,000
28	s. 67	300	157	s. F	1,200		s. 89	1,000
	of 13	1,500	158	s. 37	300		s. 90	1,000
43	s. 9	700	159	s. 43	5,800		s. 91	1,000
	s. 8	700		s. 44	5,800		s. 92	1,000
	s. 6	700		s. 48	5,800		s. 93	1,000
	s. 7	700		s. 47	5,000		s. 94	1,000
52	s. 16	2,000		s. 46	5,800		s. 95	1,000
	s. 17	2,000		s. 45	5,800		s. 96	1,000
	s. 18	2,000		s. 33	6,000		s. 97	1,000
	s. 19	2,000	160	of 1	5,500		s. 98	1,000
	s. 20	2,000	161	s. D	500		s. 99	1,000
54	of 15	2,400	167	s. 31	5,000		s. 111	1,000
51	of 6	400	177	s. 18	1,200		s. 112	1,000
56	of 10	1,800		s. 19	1,200		s. 113	1,000
57	of 5	1,200		s. 20	1,200		s. 114	1,000
	of 5	1,200		s. 21	1,200		s. 115	1,000
	of 5	1,200		s. 22	1,200		s. 116	1,000
60	s. 17	100		s. 23	1,200	191	s. 11	2,000
	.....	100		s. 87 to 96	8,000		s. 12	2,000
67	of 18	1,200					s. 13	2,000
70	of 13	500	179	s. 1	3,800		s. 70	1,200
72	s. 21	1,800		s. 12	2,000		s. 69	1,200
	s. 22	1,800		s. 25	1,200		s. 68	1,200
	of s. D.	1,200		s. 29	400		s. 67	1,200
77	s. 33	4,000		s. 30	400	192	3	2,200
80	of 14	2,000	181	s. 25	300		s. 40	3,600
97	of 28	500		s. 17	500		s. 41	3,600
99	of 5	300		.....	500		s. 42	3,600
101	of 16	1,800		.....	500		s. 25	2,800
	.....	1,800	S. of 181	s. 1	4,000		s. 26	2,800
	.....	1,800	183	of s. 48	100	193	s. 108	2,000
102	s. 19	300	184	s. 1	9,000		s. 109	2,000
103	s. 12	5,000	185	s. 9	8,000		s. 110	2,000
107	of 21	1,400	190	s. 21	3,000		s. 111	2,000
	of 22	1,400		s. 22	2,200		s. 112	2,000
110	s. 15	600		s. 23	2,200		s. 103	2,200
	.....	600		s. 24	2,200		s. 104	2,000
113	s. 24	5,000		s. 25	2,000		s. 105	2,000
	s. 25			s. 26	2,000		s. 106	2,000
115	s. 6	2,000		s. 27	2,000		s. 107	2,000
	s. 27	3,000		s. 28	2,000	194	s. 23	2,800
	s. 28	3,000		s. 29	2,000	S. of 195	all.	20,000
	s. 29	3,000		s. 30	2,200	N. of 196	2	3,500
	s. 49	5,500		s. 31	2,200		.....	3,500
	.....	8,000		s. 32	2,200		.....	3,500
	s. 51	4,200		s. 33	2,200		.....	9,000
	s. 52	4,000		s. 34	2,200		.....	800
	s. 55	6,500		s. 35	2,200		1	20,000
117	s. 43	1,500		s. 36	2,000	197	3	6,500
	s. 39	200		s. 37	2,000		of 20	500
	of 28	500		s. 38	2,000	198	5	10,000
	.....	500		s. 39	2,200		.....	10,000
120	10	2,500		s. 40	2,200	199	s. 26	4,000
	of 11	300		s. 41	2,200		s. 25	4,000
121	of 2	7,000		s. 42	2,200		s. 24	
131	s. 10	1,200		s. 43	2,200		of s. 3	400
134	s. 1	2,000		s. 44	3,000		15	10,000
137	s. 6	21,000		s. 51	1,000		.....	9,000
138	of 3	19 600		s. 52	1,000	205	of 20	1,500
139	s. 52	8,000		s. 53	1,000		.....	1,500
	s. 53	8,000		s. 54	1,000	206	s. 201	2,000
	s. 45	3,000		s. 55	1,000	208	s. 107	4,000
	s. 54	7,000		s. 56	1,000	209	of s. 22	3,000
	s. 55	5,000		s. 57	1,000	210	of 2	2,500
	s. 59	8,000		s. 58	1,000		.....	2,500
	s. 60	4,500		s. 59	1,000		of C	500
	s. 61	5,000		s. 60	1,000		of 74	100

Statement showing the location and assessed value of new improvements, &c.—Continued.

WASHINGTON CITY—Continued.

Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.
214	s. 34	$5,000		12	$400	393	10	$800
220	s. 31	600		13	400	395	of s. 18	1,000
221	1	800		14	400	N. of 396	1	6,000
223	s. E	5,000		15	400		2	
	of s. H	10,000		16	400		3	
234	s. 11	400		17	400	393	s. 20	300
	s. 12	400		18	400	399	of s. 24	1,800
	s. 13	400	312	s. 23	200	405	s. C	2,000
	.....	400	314	s. 10	2,800	406	of 6	3,000
	s. 14	1,400	318	s. I	4,000	407	of 13	3,000
	s. 15			.....	4,000		16	5,000
	s. 16			s. 16	3,000	408	of 1	8,000
	s. 20	300	323	of 1	1,500		of 1	7,000
	s. 21	300		.....	1,000		of 12	4,500
	s. 22	300		4	100	417	s. 23	500
	s. 81	400	327	s. 3	300		s. 24	500
236	4	1,800	331	s. A	300		s. 25	500
239	s. 59	4,000		s. B	300		s. 26	500
	s. 35	2,500	N. of 334	s. 16	2,000		.....	500
240	s. 86	5,500		s. 17	1,800		.....	500
	s. 85	2,200		s. 18	1,400	419	of 4	1,000
	s. 113	2,500	338	s. 28	1,400	420	s. 4	460
241	s. 70	2,000	339	s. 6	500	424	of 6	600
	s. 71	2,000	343	of 5	1,100	428	of 4	1,000
	s. 49	1,400	344	s. 1	2,500	429	of 11	4,000
N. of 242	of s. 1	300	345	of s. C	3,500		of 11	6,000
242	s. 54	6,000		of 9	3,000	431	11	6,500
243	of 3	1,300	N. of 351	s. B	100		of 6	500
	s. 9	3,000	360	s. 37	1,600		of 16	5,500
	s. 10	3,000		s. 38	1,600		of 17	6,000
	s. 11	3,000	361	s. 62	2,000	432	of 6	6,000
245	s. B	11,000		s. 61	1,800	434	s. E	1,100
250	of 14	2,000	364	s. 78	200		s. D	1,000
	of 26	2,800	366	s. 1	900		s. C	1,000
	of 26	3,500		s. 9	1,500		s. B	1,000
252	s. 1	500		s. 59	300	435	s. 9	200
258	of 15	1,500	368	s. 31	200		s. 16	1,800
273	s. S	150	370	s. 15	3,500	436	6	1,500
276	s. 13	2,500		s. 16	3,500		7	1,500
	14		372	s. 18	800	441	s. 31	600
	s. 42	1,000		s. 19	800	442	s. 53	600
S. of 277	s 14	4,500		s. 20	800		s. 54	600
	s. 13	9,000		s. 21	1,000		.....	600
	s. 12	15,000	375	part.	2,500		.....	600
279	of s. 29	7,000		s. 28	2,500		.....	600
	s. 30	7,000	376	s. C	1,500		.....	600
280	of 13	1,600	377	s. 30	1,000	445	s. 126	1,600
287	of s. 2	900		s. 31			s. 125	1,400
288	s. 32	2,000	380	s. C	6,000		s. 124	1,400
	of 13	3,000	382	6	3,500		s. 123	1,400
	of 14	1,200		s. 13	1,500		s. 122	1,400
	.....	3,200		s. 14	1,500		s. 121	1,400
	of 16	1,400		s. 15	1,500		s. 68	300
291	2	2,200		s. 16	1,500		.....	300
292	of 1	1,800		s. 17	1,500		s. 116	200
294	of 3	100		s. 18	1,500	447	of 13	1,300
296	of 12	7,000	384	3	800		.....	1,300
	s. 58	1,500		4	800	449	of 8	3,000
	s. 59	1,500		8	800	458	s. 17	3,000
	s. 60	1,500		.....	800		s. 18	3,000
	s. 20	1,600		.....	800	462	s. 15	600
	s. 21	1,600		.....	800	463	s. A	600
	s. 25	1,400		.....	800		of 2	500
	s. 26	3,000		3	1,000		of 2	3,200
297	19	1,200		4	1,000	465	s. 15	600
305	s. 34	2,400		5	1,000		s. 14	600
308	1	750		.....	1,000	466	22	12,000
	2	750		.....	1,000		23	
	3	750		.....	1,000		24	
	4	750		.....	1,000		25	
	5	750	385	1	900		26	
	6	750		2	1,000	467	of s. 3	800
	7	750		.....	1,000		of s. 4	800
	8	400		.....	1,000		.....	800
	9	400		.....	1,000	468	of 2	900
	10	400		.....	1,000	469	30	600
	11	400		.....	1,000	W. of 471	all	200
						476	1	2,500
							.....	1,500

Statement showing the location and assessed value of new improvements, &c.—Continued.

WASHINGTON CITY—Continued.

Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.
	.....	$1,500	Res. 10	19	$400	686	of 17	$2,600
	.....	1,500	Res. 11	s. 27	1,000	701	of 5	1,200
479	s. 35	400		.....	1,000	719	s. 27	800
	s. 32	300		.....	1,000		s. 20	600
484	of 5	2,000	Res. A	of 37	1,500	724	13	2,000
	of 5	400		of 38			.....	2,000
485	s. 20	3,000	Res. D	13	1,000		.....	2,000
	s. 21	3,500		.....	1,000		of 17	1,400
486	9	400		of 14	400	725	of 10	100
488	s. 19	2,500		19	400	726	of s. 6	7,000
491	of 3	3,000	535	of 9	3,000		.....	5,000
	of 4	700	536	A	500	732	of 24	1,500
492	s. 2	2,500		B		743	of s. 1	500
498	1	400		C			.....	500
499	11	400	537	of 2	1,000		of s. 10	600
	.....	400	538	of 9	750		of s. 11	600
	of 13	300		.....	750	751	of 7	1,200
502	7	200		of 27	700	757	of s. B	300
	s. 83	400	544	9	1,200	761	s. 23	5,000
	.....	400	545	22	300	763	of 10	200
	of 47	400	E. of 546	s. 12	2,000	775	s. 22	800
	of 48	400	557	of 5	2,000		s. 23	800
507	s. 12	1,300	558	of 5	500		s. 24	800
	s. 13	1,300	564	s. 40	100		s. 25	300
	s. 14	1,300		.....	200		s. 26	300
	s. 15	1,300		.....	300	776	4	1,000
	s. 16	1,300	566	s. 38	1,500	783	of 4	1,600
	s. 17	1,300		s. 39	1,500		.....	1,600
	s. 18	1,300	567	of 17	500		.....	2,000
	s. 19	1,300	569	7	500		.....	400
	s. 20	1,300		.....	500	785	of 3	400
	s. 21	1,300		.....	500		.....	400
	s. 22	1,300	570	of s. 16	4,000	788	of 5	2,000
	s. 23	1,400	571	s. 19	1,500		s. 36	1,900
	s. 24	1,400		s. 20	1,500		s. 41	1,900
	s. 25	1,400		s. 21	1,500		s. 42	1,900
	s. 26	1,400		s. 29	1,800		s. 43	1,900
	s. 27	1,400		s. 30	1,800	790	of 3	3,500
	s. 28	1,400	573	of 2	4,000	791	of 2	800
	s. 29	1,400	575	s. 1	3,500	797	s. 10	250
	s. 30	1,400		s. 2	3,000		.....	250
509	s. 34	600		s. 3	3,000	798	of 10	2,000
	s. 112	700		s. 4	3,000	805	s. 18	400
	s. 113	700		of s. 8	3,000		s. 20	300
	s. 114	700	581	s. H	1,000		s. 21	300
	s. 73	800	582	of s. 1	800	806	of 2	600
E. of 509	s. 2	2,000		.....	800	809	s. 25	590
511	s. 15	100	585	4	600	812	of 2	300
	s. 16	100		20	800	825	part.	200
	.....	100		.....	800	829	s. 39	400
514	of 23	1,500		.....	800		s. 56	1,200
515	of 2	2,500	587	of 17	400	838	s. 19	400
	of 3		588	s. 14	800		s. 21	1,150
	s. D	500		s. 15	800	840	of 1	3,000
	s. E	500	597	s. 21	500		.....	3,000
	s. F	500		.....	500		of 2	3,000
	s. G	500	617	8	600	841	s. 1	2,000
	s. H	500	620	s. 74	800		s. 2	2,000
	of 28	100		s. 75	800		s. 11	2,500
	.....	100		s. 76	800	846	of 8	1,600
	.....	100		s. 77	800	857	s. 78	500
521	10	600		s. 78	800	858	4	400
	.....	400		s. 79	800		.....	400
	.....	400		s. 80	800	865	of 15	250
	.....	400		s. 81	800	870	of 19	800
523	of 9	1,200		s. 82	800	874	of s. E	2,500
	.....	1,200		s. 83	800	876	of 1	100
525	of 1	1,200	622	of s. 27	200		of 5	1,600
	.....	1,200	623	s. 132	1,600		s. 20	500
	.....	1,200	630	of 4	600		s. 21	500
527	of s. 2	1,500	634	s. 53	3,000		s. 22	500
	.....	1,500		s. 27	3,000		s. 23	1,500
528	s. 18	1,000	643	s. 21	900		s. 24	1,500
530	16	3,300	652	3	300	887	s. 53	600
	17	3,300	675	s. 103	1,560		s. 54	600
	.....	3,300		s. 104	1,500		s. 55	600
533	s. 32	3,500	686	of 2	4,000		s. 56	600
	s. 33	3,500		of 16	2,200		s. 57	1,000
	s. 34	3,500		.....	2,200	890	s. 35	1,200

Statement showing the location and assessed value of new improvements, &c.—Continued.

WASHINGTON CITY—Continued.

Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.
S. of 893	s. 2	$300	.....	.....	$1,400	974	of s. 14	$800
894	of 9	1,000		3	1,400	977	of 25	2,000
	15	500	.....	.....	1,400	986	of 7	400
897	7	900	.....	.....	1,400		.....	400
898	of 14	400	.....	.....	1,400	990	of 7	100
907	part.	3,000	.....	.....	1,400	1005	7	750
914	of s. 12	350		4	150	1010	4	200
916	s. G	800	950	9	200	1031	8	}
917	4	200	951	of 7	100		9	} 400
944	s. 35	350	958	s. A	100		10	}
947	2	1,400	967	of 3	2,500	1043	29	300
	.....	1,400	973	17	} 1,200	1061	of 13	300
	.....	1,400		18	}	1076	of 8	800
Total								1,323,700

Number of new houses, 601; number of houses demolished, 90; value, $113,360.

TABLE L.

TREASURER AND ASSESSOR'S OFFICE,
Washington, August 20, 1880.

Statement showing the location and assessed value of new improvements for the fiscal year ending June 30, 1881.

GEORGETOWN.

Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.	Square.	Lot.	Assessed value.
5	of 21	} $3,000	40	of 178	$2,400	56	of 90	$600
	of 22	}	41	of 161	5,900	66	of 39	400
16	of 41	150		of 162	3,400	67	of 104	500
26	of 182	} 5,600		of 163	3,400	83	of s. 4	1,200
	of 184	}	44	of 18	200	88	of 204	2,400
27	of 61	900		of 19	500	90	of 106	2,000
	of 20	200	48	of 14	} 300	E. of 94	of s. 1	50
	of 21	400		of 15	}	97	of 255	1,700
29	of 16	}		of 18	2,000	99	228	6,000
	of 17	} 1,100		of 87	} 100	103	of 199	1,000
32	27	2,400		of 88	}	110	of s. 5	500
37	of 17	800	53	of 63	300			

Value of new improvements, $49,400; new buildings, 52; old buildings, 11 (torn down, &c.), value, $26,600.

TABLE M.

TREASURER AND ASSESSOR'S OFFICE,
Washington, August 20, 1880.

Statement showing the location and assessed value of new improvements for the fiscal year ending June 30, 1881.

WASHINGTON COUNTY.

Location.	Block.	Lot or acres.	Assessed value.
Isherwood	19	12	$50
	23	16	400
		17	
		18	
Uniontown		156	500
		157	
		158	50
		159	
		238	600
		604	200
Barry Farm	3	32	100
	7	30	300
		of 31	200
	8	of 9	100
	8	20	200
	8	29	100
	8	31	100
	8	32	150
	8	34	100
	8	47	100
	9	6	400
		29	50
Prospect Hill		E. ½ 22	500
		5	1,200
Ivy City		33.05 acres.	25,300
Brentwood road		70.12 acres.	2,000
Talbert estate		8	600
Columbia turnpike		16	1,200
COUNTY SUBDIVISION.			
Hamilton road	5¾		200
			100
Bladensburg pike		3 acres.	1,000
Anacostia road		90 acres.	300
		75.6 acres.	300
		32.90 acres.	1,400
		14.48 acres.	300
Glendale		15	200
		16	
Brentwood road		14.17 acres.	2,000
Benning's road		27.41 acres.	150
		6 acres.	200
		60 acres.	200
		.07 acres.	1,000
		2.35 acres.	1,000
Livingston road		23.81 acres.	500
Bladensburg pike		1¼ acres.	250
Bladensburg road			
Bartruff's subdivision		5¼ acres.	1,600
Ridge road		5½ acres.	200
Sheriff road		½ acre.	100
Good Hope road		1½ acres.	600
Gales' woods		13.83 acres.	500
Metropolis View		of 13	1,000
		of 13	1,200
Glendale		66	200
Howard University	11	11	800
	17	14	100
		15	300
	18	5	700
		of 23	200
		24	200
Todd & Brown	6	32	400
	10	of 32	300
S. P. Brown's		38	4,000
Haw's subdivision		63	150
		65	1,600
Wright & Cox		of 60	150
Sherman's		24	2,000

TABLE M.—*Statement showing the location and assessed value, &c.*—Continued.

WASHINGTON COUNTY—Continued.

Location.	Block.	Lot or acres.	Assessed value.
COUNTY SUBDIVISION—Continued.			
College subdivision		50	$2,500
Meridian Hill	12	6	50
	17	of 16	200
		of 17	200
Le Droit Park	9	s. 13	2,500
		s. 14	2,500
	14	7	1,500
Wright & Dole		104	400
Receivers' subdivision		22	500
Piney Branch race-course		21½ acres.	200
Rock Creek Ford road		2½ acres.	300
		32.53 acres.	900
Near Piney Branch road		1 acre.	300
Canal road	Old tannery		5,000
Seventh street road		19½ acres.	300
		1.27 acres.	500
Canal company's land			100
Georgetown and Rockville pike		26 acres.	400
		.09 acres.	700
		9½ acres.	100
		4 acres.	500
Near Mount Pleasant street		.09 acres.	400
Sargent road		27¾ acres.	1,500
Conduit road		21¼ acres.	900
		70.35 acres.	100
Blair road		18¾ acres.	2,500
Rock Creek Church road		33 acres.	500
		23.90 acres.	300
		23 acres.	4,700
Piney Branch road		½ acre.	100
Seventh street road		45 acres.	600
Loughboro' road		50 acres.	300
Aqueduct street		2 acres.	400
Pierce Mill road		338.40 acres.	50
Blair road		82 acres.	100
Seventh street road Schuetzen Park		12 acres.	18,000
Reno		19 20 21	50

148 new buildings—value, $110,050; 20 buildings torn down, &c.—value, $8,900.

TABLE N.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., July 1, 1880.

Property exempt from taxation.

WASHINGTON CITY.

No. of square.	No. of lots.	Square feet.	Description.	Ground.	Improvements.
27	pts. 8 and 9	11,052	St. Stephen's Church	$5,939	$50,000
39	all	33,496	St. Ann's Infant Asylum	20,098	25,000
42	pt. 13	4,515	Chapel, vestry Saint John's parish	903	600
51	5	4,510	Union Wesley Church	1,579	4,000
54	pt. 6, 7	12,028	Saint Paul's Church	4,811	10,000
58	s. 1	6,520	Chapel Holy Communion	1,174	6,000
101	28, pt. 29	8,334	Union Chapel	5,966	20,000
106	4, 5	11,637	Friends' Meeting House	9,310	1,500
118	11, pt. 12	5,037	Nineteenth Street Baptist Church	5,037	20,000
119	3	5,922	Western Presbyterian Church	3,553	20,000
121	pt. 5	6,522	German Lutheran Church	4,892	5,000
N. 137	all	5,673	Holy Cross Church	3,404	2,500
138	2, pt. 1 and 3	29,164	Residence British minister	20,415	60,000

TABLE N.—*Property exempt from taxation*—Continued.

WASHINGTON CITY—Continued.

No. of square.	No. of lots.	Square feet.	Description.	Ground.	Improvements.
156	s. 34	16,125	Miner school building	$4,031	$30,000
161	4	6,714	Berean Baptist Church	2,014	6,000
	s. 8	3,363	John Wesley Church	1,850	5,000
162	s. 1	114,579	Sisters of the Visitation	68,747	80,000
167	5-8	17,733	Corcoran Art Gallery	28,781	150,000
	of s. 28 29, 30	9,610	Corcoran Art Gallery stable	12,013	1,000
169	s. 26, 27, 28, 49, 50, 59, 60.	28,828	National Soldiers and Sailors' Orphan Home	21,084	11,500
172	pts. 14, 15	5,463	Liberty Baptist Church	369	5,000
182	s. 22, 23	6,937	Union Bethel Church	2,815	2,000
183	s. 23, 24	5,724	St. Matthew's Institute	2,576	2,000
184	pt. 12	5,325	Shiloh Church	3,994	3,000
194	s. 38, 39, 40	7,125	St. Luke's Protestant Episcopal Church	2,850	35,000
196	pt. 4 and 10, 11-16	58,081	Louise Home	30,490	150,000
197	s. 15, 16	7,744	Bethel Church	3,872	3,000
	pt. s. 49	10,675	St. Augustine Church	3,736	60,000
	s. 3	3,872	School of Saint Augustine Church	2,323	2,000
200	pt. 4, 5	7,500	St. John's Church	14,063	15,000
207	pt. s. 19-23	8,794	Mount Zion Church	3,516	4,000
	s. 84, 85	5,600	First Baptist Church	3,080	2,000
209	pt. s. 43	1,935	Second White Oak Church	581	400
218	9	4,410	Fifteenth Street Presbyterian Church	7,718	15,000
220	pt. s. 12-15	12,342	St. Matthew's Church	21,598	40,000
221	21	7,266	Residence Prussian minister	12,715	15,000
239	s. 10-15	55,348	Washington City Orphan Asylum	24,440	35,000
242	17	6,912	Christian Church	7,293	3,000
244	all	15,612	Memorial Evangelical Lutheran Church	19,515	50,000
245	s. 1-4	16,594	St. Matthew's Institute	16,866	30,000
247	16	11,922	St. Mary's Academy	10,730	20,000
248	s. 59	9,234	All Souls Church	10,619	75,000
250	pt. 4	5,947	Epiphany Church Home	6,839	8,000
251	s. 1, 8	6,858	Second Presbyterian Church	10,287	60,000
252	3, 4	24,437	Epiphany Church	28,103	50,000
	9, pts. 8 and 10	8,824	Foundry Church	11,128	70,000
266	s. 2	3,400	Kendall Mission Church	680	2,500
272	all	96,870	Children's Hospital	14,973	18,100
276	s. 9, 10	5,000	Fourth Baptist Church	1,500	3,500
	18-24	22,400	Women's Christian Association	5,600	15,300
277	s. 3, 4	5,131	Evangelical Lutheran Church	1,796	4,000
	s. 26, 27, 28	8,478	Fifth Baptist Church	2,968	15,000
282	s. 1, 2, 3	11,514	Ascension Church	17,272	100,000
288	pt. 9, 10	9,742	Thirteenth Street Baptist Church	9,742	40,000
314	s. 22	5,640	Church of the Incarnation	5,640	15,000
317	11	3,750	Asbury African Church	3,750	25,000
319	pt. 11	4,200	Lutheran Church	5,460	12,000
336	s. 24 and 25	1,800	Pisgah Church	500	400
346	pts. 6 and 11, 7-10	19,978	St. Vincent's Orphan Asylum	36,409	25,000
365	s. 1, 72, 73	7,800	Hamline Church	4,440	30,000
367	s. 9, 10, 11	8,820	North Presbyterian Church	5,733	6,000
370	2	7,516	McKendree Chapel	9,395	25,000
375	s. 12-18	15,806	Congregational Church	17,162	80,000
	pt	13,190	St. Joseph's Male Orphan Asylum	13,190	20,000
	pt	12,850	Fourth Presbyterian Church	17,990	30,000
376	pt. s. 24	33,067	St. Patrick's Church	66,134	35,000
387	pt. 22, 23	5,992	Ryland Chapel	1,198	12,000
395	s. 28, 29, 30	5,859	Grace Methodist Episcopal Church	1,562	20,000
402	pt. 2, 3	6,866	Mount Vernon Methodist Episcopal Church	8,926	40,000
404	pts. 9, 10	6,746	Washington Hebrew Congregation	4,724	20,000
406	pts. 6, 7	3,965	Meth. Protestant Church	8,922	20,000
407	3, 4, pt. 5	10,650	Young Men's Christian Association	31,800	60,000
411	19, 20, 21	6,465	Grace Church	1,490	3,000
	29, 30	4,500	St, Paul's Methodist Episcopal Church	900	2,500
423	3, pt. 4	12,001	Church of Immaculate Conception	11,801	70,000
429	8, pt. 9	7,600	Calvary Baptist Church	6,840	60,000
434	4-9	21,256	Academy Sacred Heart	8,500	20,000
448	pts. 55-59	3,141	German Protestant Church	1,738	1,000
449	23	6,708	German Reformed Church	4,025	20,000
457	pt. 19, 20	6,823	E Street Baptist Church	7,846	40,000
465	s. 79, 80, 81	8,617	Fifth Street Presbyterian Church	2,982	7,000
466	19-23	21,432	St. Dominic Church	5,360	160,000
468	26, 27	6,100	First Colored Baptist Church	1,526	4,000
478	pt. 1	4,202	Kendall Mission Church	1,051	3,000
479	s. 19, 20	3,946	Lutheran Mission Church	1,282	2,500
485	s. 22, 23	5,700	Assembly Church	4,950	8,000
487	pt. 6	1,556	Adas Israel Hebrew Congregation	1,556	4,000
488	10, pt. 11	5,715	Wesley Chapel	4,020	30,000
490	23, 24	12,463	First Presbyterian Church	19,941	70,000
491	20, pt. 21	9,200	Metropolitan Methodist Episcopal Church	12,880	120,000

TABLE N.—*Property exempt from taxation*—Continued.

WASHINGTON CITY—Continued.

No. of square.	No. of lots.	Square feet.	Description.	Ground.	Improvements.
492	pt. 6	6,090	Sixth Presbyterian Church	$2,436	$20,000
493	3	8,137	Shiloh Baptist Church	2,034	15,000
501	pt. 24	2,414	Gorsuch Chapel	483	3,000
510	s. 83, 84, 85	3,996	Colored Baptist Church	600	3,000
514	pt. 1	4,610	Fletcher Chapel	2,305	1,000
515	pt. 21	5,877	Galbraith Chapel	2,351	1,200
518	pt. 5	10,389	St. Mary's Church	6,233	15,000
	pts. 5	8,002	St. Mary's Schools	3,901	6,600
528	pt. s. 33, 24, 25	5,073	Second Colored Baptist Church	2,789	1,000
531	pts. 2 and 3	2,635	Evangelical German Lutheran Church	1,977	8,000
535	pt. 8	5,000	German Evangelical Lutheran Church	1,500	3,000
538	pt. 6 and 7	4,295	Zion Baptist Church	859	4,000
W. 553	s. A	1,500	Beulah Baptist Church	270	500
560	pt. 6	8,120	Central Bresbyterian Church	7,308	7,000
S. 572	pt. 2	7,000	Trinity Church	6,300	20,000
576	pt. 1	7,500	Israel African Methodist Episcopal Church	1,850	40,000
579	pt. 1	6,350	Wesley Zion Church	953	3,000
622	pt. s. 35	13,500	St. Aloysius Church	7,425	100,000
	s. 36	57,860	Gonzaga College	31,823	20,000
652	pt. 6	3,757	Rehoboth Baptist Congregation	150	800
674	of 10	5,625	North Capitol Methodist Episcopal Church	1,688	2,000
675	pt. and s. 222	13,750	Notre Dame Schools	4,125	27,700
676	61–65, 68	17,280	..... do	4,896	6,200
685	4	4,551	New Jerusalem Society	2,204	5,000
692	12	4,915	Church of Reformation	1,966	800
733	24–27	16,408	St. Peter's Church	7,384	15,000
751	1, 2, 9, 10–12	48,576	Little Sisters of the Poor	7,768	30,000
756	3, 4,	17,765	St. Joseph's Church	5,830	4,000
	7, 8, 9	31,353	St. Joseph's Schools	9,016	1,500
764	pts. 2, 13, 14, 3–10	66,167	Providence Hospital	10,491	95,000
785	6, pt. 7	5,348	Waugh Chapel	1,811	25,000
788	10	3,786	St. Mark's Church	1,893	3,000
789	pt. 2, 5	10,560	Metropolitan Presbyterian Church	6,768	25,000
793	4 pt. 6	8,655	St. Peter's Parochial School and Church	1,731	12,000
820	4	3,938	East Washington Methodist Episcopal Church.	985	8,000
822	pt. 7, 8	9,143	Ebenezer Church	1,097	12,500
823	pt. 3	6,002	First Baptist Church	850	8,000
829	s. 48, 49	4,000	Mt. Olivet Baptist Church	400	400
840	10	4,200	Metropolitan Baptist Association	1,470	3,500
847	3	8,516	Methodist Protestant Church	852	7,000
869	13, 14, pt. 12	11,714	St. Cecilia's Academy	3,946	25,000
873	6 pt. 7	14,545	Christ Church	1,745	11,000
891	s. 36, 37	4,600	Eastern Presbyterian Church	460	3,000
922	pt. 2	3,960	North Carolina Avenue Mission Church	792	1,500
992	17	5,581	East Washington Methodist Episcopal Church.	558	1,800
1034	s. 11, 12	2,120	Mt Sinai Church	128	1,000
1055	s. 1, 2	3,480	Mt. Zion Mission	140	1,000
1082	6	9,692	Free-will Baptist Church	194	350
1089	all	103,928	Ebenezer burial ground	2,080	.....
1102	all	147,544	Methodist burial ground	5,902	.....
1104	all	146,531	Congressional Cemetery	5,861	.....
1105	all	54,384	.....do	2,175	.....
1106	all	54,384	.....do	2,175	.....
1115	all	96,169	.....do	2,885	.....
1116	all	96,232	.....do	2,887	.....
1117	all	46,810	.....do	1,405	.....
1123	all	54,384	.....do	544	.....
	Total	2,456,343		1,072,339	3,116,650
	Total exempt				4,188,989

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE O.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., July 1, 1880.

District of Columbia property.

WASHINGTON CITY.

No. of square.	No. of lots.	Square feet.	Description.	Ground.	Improvements.
72	pt. 12	3,906	Hook and ladder house	$586	$6,000
73	22, 23, 24	16,481	Stevens school building	4,121	14,000
77			School-house on leased ground		3,000
78	pt. 13, 14–21	35,051	Market-house	17,525	18,000
	22	5,729	Police station	2,865	6,000
158	pt. 18 and 19		School-house, ground owned by United States		35,000
175	3	9,099	Pump-house	1,365	5,000
182	subs. 24–29, pts. 6 and 8, 7.	37,390	Sumner school building	12,181	50,000
184	s. 4, pt. s. 5	3,211	No. 1 Engine house	2,890	10,000
209	s. 30	5,000	Berret school building	3,500	4,000
250	5, 6		School-house on leased ground		700
284	pt. 24	3,229	Thompson school building	3,229	8,000
285	subs. 14–17	14,946	Franklin school building	20,557	180,000
327	subs. 10, 11, 12	5,837	Potomac school building	584	4,500
364	pts. of subs. 83 and 85, 84.	3,000	Used as a street	900	
372	subs. 1, 17	3,020		3,738	
382	3	10,394	Central guard-house	15,591	10,000
412	subs. 13–16	7,939	Anthony Bowen school building	1,692	5,000
446	subs. 2–36	89,700	O-street market	47,100	3,000
S. 482	all	6,448	Abbott school building	4,514	20,000
489	3 pt. 4	6,312	Police court	10,369	6,000
490	pt. 3	4,272	Spring	4,913	
494	8, 9, 10	63,288	Jefferson school building	18,986	86,000
	pt. 12	6,500	Engine-house	1,300	7,000
502	67, 68	7,500	Greenleaf school building	1,500	8,000
511	subs. 10, 11, 12	8,640	John F. Cook school building	2,260	18,000
517	pt. 7	2,085	Hook and Ladder, No. 1	1,251	5,000
562	18, 19, 20	13,500	Seaton school building	10,800	35,000
E. 590	all	9,088	Randall school building	909	40,000
685	pt. 7	3,412	Hook and Ladder	1,877	5,000
724	pt. 17	1,350	Alley	270	
762	4, 5	11,600	Lincoln school building	5,200	25,000
792	pt. 5	4,000		1,000	
801	13, 14	13,575	McCormick school building	815	7,000
814	10, 11 pt. 12, s. D. pt. 12.	16,210	School building (new)	4,053	25,000
845	pt. 3	2,400	School building	480	5,000
872	pts. 5 and 10, 1–4, 11–15.	77,770	Market-house	21,260	60,000
877	pts. 1–34	3,163	School building	451	1,600
901	all	96,760	Wallach school building	29,028	40,000
925	pt. 6	2,400		600	
985	1, 2, 18		Lovejoy school building (ground belongs to United States).		10,000
995	19, 20	7,776	Cranch school building	1,045	16,000
1098	16, 17	23,766	School building	712	1,200
Res. 13			Almshouse		25,000
			Workhouse		20,000
			Intendant's house, &c		7,350
			Hospitals, &c		2,550
	Total	645,747		262,017	831,900
	Total				1,093,917

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE P.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., July 1, 1880.

United States property.

WASHINGTON CITY.

No. of square.	No. of lots.	Square feet.	Description.	Ground.	Improvements.
25	s. 1–18	153, 246	Columbia Hospital	$76, 853	$35, 000
82	all	10, 610	Frame	1, 273	300
141	pt. 11	1, 500	Old engine house (now used for school purposes).	1, 200	2, 100
158	18, 19	18, 970		5, 691	
169	s. 1, 17, 18, 19	10, 928	Winder's building	14, 367	200, 000
	s. 2–7	20, 466	Building west of Winder's building	16, 373	20, 000
221	22		Frames used by Surgeon-General		4, 000
230		14, 806	Ground south of square 230	5, 982	
231	13–23	55, 224	Engraving and Printing	27, 612	327, 537
232	2, 4, 15, 21		Frames used by Commissary Department.		3, 950
249	all	174, 416	Franklin Square	261, 624	
259		9, 664	Ground south of square 259	3, 961	
260		9, 666	Ground south of square 260	3, 866	
293	pt. 15	2, 300	No. 2 engine house	2, 070	3, 500
295		13, 610	Ground south of square 295	7, 207	
377	pts. 4, 9, 11, 10	10, 212	Medical Museum	8, 280	88, 000
382		19, 597	Ground south of square 382	33, 977	
430	all	64, 299	General Post-Office	321, 495	2, 124, 500
Res. 10	pts. 38, 39	1, 035	Storehouse, plates Congressional Globe	414	1, 200
575	pts. of s. 1–5	2, 582	Addition to Capitol grounds	45, 000	
576	pt. 9	2, 616	——do	5, 234	
624	part	54, 809	Government printing building	21, 922	216, 000
636	pts. 12 and 13	11, 442		14, 950	
683	1	14, 775	No. 3 engine house	18, 000	10, 000
803	water lots		Georgia ave., 3d and 4th sts. east	743	2, 000
836	12	4, 200		509	
927	all	156, 175	Marine barracks	31, 235	329, 637
948		30, 711	United States naval hospital	7, 678	116, 035
985	1, 2, 18	14, 010		1, 019	
1135	11	5, 567		28	
1140	1–9–12	25, 314		127	
S. 1140	6–9	16, 821		86	
1142	2–9	31, 132		158	
1150	all	58, 950		177	
1151	all	62, 538		125	
1152	all	54, 384		109	
1153	all	58, 950		118	
1154	all	40, 243		80	
1155	all	80, 598		80	
1156	all	62, 332		62	
1157	all	58, 950		59	
1158	all	6, 400		6	
1159	all	80, 700		81	
1160	all	62, 332		62	
1161	all	42, 436		42	
1162	all	62, 332		62	
1163	all	62, 332		62	
1164	all	20, 600		21	
1165	all	80, 597		81	
1166	all	62, 332		62	
1167	all	80, 546		81	
1168	all	62, 332		62	
1169	all	80, 597		81	
1170	all	62, 332		62	
Res. 1		3, 599, 064		7, 198, 128	
			President's house and conservatory		753, 580
			President's stables		28, 500
			United States Treasury building		7, 008, 454
			Treasury workshops, &c		77, 000
			State, War, and Navy building		6, 211, 161
Res. 2		1, 378, 172	Agricultural building, hot-houses, &c.	689, 086	361, 825
		2, 553, 378	Smithsonian Institute / National Museum	2, 553, 378	492, 651 / 250, 000
		1, 454, 354	Armory building	1, 454, 354	37, 702
Res. 3		3, 631, 562	Washington monument	1, 815, 781	180, 000
Res. 4		839, 074	Observatory	125, 861	255, 264
Res. 5		3, 054, 017	Arsenal buildings	1, 221, 607	255, 324
Res. 6		161, 201		3, 224	
Res. 8		181, 221	Patent-Office building	906, 105	2, 848, 778

United States property—Continued.

WASHINGTON CITY—Continued.

No. of square.	No. of lots.	Square feet.	Description.	Ground.	Improvements.
Res. 9	.....	836, 374	Judiciary Square.....	$1, 254, 561	.....
	.....	.....	City Hall.....	.....	$135, 152
Res. 13	.....	3, 361, 199	.....	134, 448	.....
	.....	.....	New jail.....	.....	525, 550
	.....	.....	Army and Navy powder-magazine....	.....	15, 000
Res. 14	.....	1, 871, 333	Navy-yard	1, 408, 500	3, 615, 808
Res. 15 and 16.	.....	118, 752	.....	9, 500	.....
Res. 17	.....	1, 360, 191	.....	163, 223	.....
	.....	2, 635, 865	Capitol grounds	7, 907, 595	.....
	.....	.....	United States Capitol	.....	15, 099, 656
	.....	487, 417	Botanical Gardens.....	1, 462, 251	556, 676
W. 576	.....	53, 398	Hot-houses	53, 398	5, 000
	.....	.....	Aqueduct	.....	3, 847, 547
	.....	.....	Aqueduct water-pipes and plugs	.....	172, 276
	.....	4, 655, 233	Intersections of streets, circles, spaces, &c.	4, 684, 942	.....
Space	.....	.....	Va. ave. and K st. south, and 8th and 9th sts. east; old Anacostia engine house, used as a school house.	.....	2, 000
Space	.....	.....	Ohio ave., C st. north, 13th st. west, Bethany Chapel.	.....	1, 000
	Total.....	34, 435, 321	....	33, 981, 451	46, 219, 653

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE Q.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., July 1, 1880.

District of Columbia property.

GEORGETOWN.

No. of square.	Number of lots.	Square. feet.	Description.	Ground.	Improvements.
6	.....	9, 000	Fish wharf.....	$1, 800	.....
30	of 47.....	3, 875	Town house.....	1, 744	$3, 000
	pt. 48.....	5, 440	Engine house	1, 360	500
	pt. 48, 49	3, 440	Station house	860	2, 500
44	.....	8, 140	School	814	3, 000
52	.....	7, 200	.....do	864	7, 000
74	pts. 153, 154	12, 600	Linthicum school building	1, 697	5, 000
	pts. 130–132	18, 750	Curtis school building.....	2, 487	60, 000
85	pts. 180, 181	5, 575	Engine house, pump, aqueduct	558	10, 000
109	pt. 208	7, 296	School.....	2, 388	3, 500
129	259, 260.....	315, 810	Poorhouse.....	4, 737	5, 000
99	pt. 245	810	City spring.....	41	.....
122	.....	.....	West termination of Sixth street, 60 by 120; Convent of Visitation.	.....	.....
	Total	.....	.....	19, 350	99, 500
	Total	.....	.....	.....	118, 850

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE R.

TREASURER AND ASSESSOR'S OFFICE,
Washington City, July 1, 1880.

Property exempt from taxation.

GEORGETOWN.

No. of square.	Number of lots.	Square feet.	Description.	Ground.	Improvements.
2	.....	25,000	Chesapeake and Ohio Canal	$2,700	.....
11	.....	26,678	.....do.....	1,334	.....
38	pt. 7	6,600	Methodist Protestant Church	1,650	$15,000
	pt. 1	6,351	Female Union Beneficial Society	1,270	7,500
	pt. 9	2,047	Methodist Protestant Church	397	300
54	.....	73,200	Georgetown College	1,850	.....
55	.....	48,600	.....do.....	1,998	.....
57	79	7,200	.....do.....	936	28,000
	72–76, 78–80	93,600	.....do.....	11,592	60,000
61	pt. 120	7,500	St. John's Church	1,050	15,000
62	32	7,200	Baptist Church	3,600	1,800
67	pt. 103	2,140	First Baptist Church	214	2,500
71	pt. 126	5,400	Mt. Zion Methodist Episcopal Church	1,080	.....
73	51	7,200	Christ Church	2,520	35,000
	39	6,960	Methodist Episcopal Church	1,392	20,000
79	.....	54,000	Georgetown College	2,970	90,000
80	.....	25,200	.....do.....	1,512	1,000
81	.....	7,200	Convent of the Visitation	432	.....
90	pt. 107	3,600	Ebenezer Methodist Episcopal Church	288	5,000
95	.....	4,800	Mt. Zion Methodist Episcopal Church	192	2,500
102	L	24,000	Lutheran Church and burial ground	2,880	3,000
103	188, 192, 196–198..	42,198	Presbyterian Church and burial ground	5,266	1,500
105	178	7,200	Convent of the Visitation	1,080	1,500
118 } 119 }	.....	119,600	Methodist Episcopal Cemetery	3,392	.....
121	201	2,760	Methodist Episcopal Chapel	497	3,000
127	pt. 247	14,700	Methodist Protestant Church	300	2,500
130	.....	5 acres.	Catholic burial ground	1,750	.....
			Total	54,052	295,100
			Total	.....	349,152

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE S.

TREASURER AND ASSESSOR'S OFFICE,
Washington City, July 1, 1880..

United States property.

GEORGETOWN.

No. of square.	Number of lots.	Square feet.	Description.	Ground.	Improvements.
39	pt. 5, 6	14,701	Custom-house and post-office	$4,410	$59,767
110	31–36	55,000	Reservoir	8,250	.....
			Total	12,660	59,767
			Total	.....	72,427

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE T.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., July 1, 1880.

District property in Washington County.

Square.	Lot.	Feet.	Description.	Ground.	Improvements.
	346–348..	7,020	Uniontown school-house	$210	$1, 500
Section 7.	.....	¾ acre ...	Barry Farm school-house	150	5, 000
		1¼ acres .	Hamilton Road school-house	250	1, 000
		½ acre ...	Anacostia Road school-house	100	1, 500
		½ acre ...	Benning's Road school-house	100	2, 000
		1 acre ...	Queen's Chapel Road school-house	200	1, 200
		¼ acre ...	Brentwood Road school-house	200	1, 500
		½ acre ...	Blair Road school-house	100	1, 000
		1 acre ...	Military Road school-house	200	1, 200
		½ acre ...	Rock Creek Ford Road school-house	100	1 000
		½ acre ...	Military Road school-house	100	1, 000
		1 acre ...	Grant Road school-house	200	1, 500
		½ acre ...	Tennallytown Road school-house	100	1, 000
		¼ acre ...	Conduit Road school-house	100	1, 500
		½ acre ...	Hamilton Road school-house	100	1, 500
Block 3 ..	4.....	25,530 ...	S. P. Brown's subdivision school	511	5, 000
Block 3 ..	8 and 9..	20,856 ...	Howard University subdivision school	1, 878	5, 000
			Total	4, 599	33, 400
			Total	.....	37, 999

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE U.

TREASURER AND ASSESSOR'S OFFICE,
Washington City, July 1, 1880.

Property exempt from taxation in Washington County.

Square or block.	Number of lot.	Square feet.	Description.	Ground.	Improvements.
			Uniontown subdivision.		
	199–202....	12, 480	Protestant Episcopal Church	$376	$1, 500
	259–261....	7, 020	Methodist Episcopal Church	282	1, 000
	56, 57, 58...	9, 360	Roman Catholic Church	374	8, 000
			Montello.		
8.....	114, 116....	4, 000	African Methodist Protestant Church	20	200
			Barry farm.		
Sec. 1....	pt. 3	3, 049	Methodist Episcopal Church	15	800
Sec. 3....	1 acre.....	.....	African Methodist Episcopal Church	150	5, 0
	13/100 acre...	.....	Baptist Church	13	200
Sec. 4....	66.....	.....	Methodist Episcopal Church	133	500
Sec. 8....	pt. of 3....	3, 049	Baptist Church	15	800
	1 acre.....	.....	Hamilton Road Methodist Episcopal Church	200	1, 000
	½ acre.....	.....	Anacostia Road Methodist Episcopal Church	100	1, 500
	¼ acre.....	.....	Benning's Road Methodist Episcopal Church	50	400
	½ acre.....	.....	.....do	100	500
	17/100 acre...	.....	Benning's Road Protestant Episcopal Church	21	1, 200
	2.68acres..	.....	Seventh Street Road Emory Chapel	800	4, 000
	¼ acre.....	.....	Tennallytown Baptist Church	50	1, 500
	½ acre.....	.....	Tennallytown Methodist Episcopal Church	100	1, 500
	16/100 acre...	.....	Tennallytown Catholic Church	50	2, 000
	1 acre.....	.....	Rockville Pike Protestant Episcopal Church	200	4, 000
	¼ acre.....	.....	Canal Road Methodist Episcopal Church	50	1, 000
	1 acre.....	.....	Bunker Hill Road Baptist Church	80	2, 500
			S. P. Brown's subdivision.		
		11, 748	Mount Pleasant Union Hall Association	352	4, 000

Property exempt from taxation in Washington County—Continued.

Square or block.	Number of lot.	Square feet.	Description.	Ground.	Improvements.
			Howard University subdivision.		
	38 acres...	.....	Howard University	$76,000	$150,009
			Todd & Brown's subdivision.		
Block 18	.....	3,750	African Methodist Episcopal Church	75	300
Block 19	.....	2,000	Methodist Episcopal Church	50	250
			Wright & Cox subdivision.		
		6,225	African Methodist Episcopal Church	498	1,000
			Meridian Hill subdivision.		
Block 7 ..	.....	108,835	Wayland Seminary.....	8,707	20,000
			Miller's subdivision.		
		4,400	Gurley Chapel	880	1,500
			Wright & Dole subdivision.		
	115–120....	70,082	Colored Orphan School	2,103	3,000
			Reno subdivision.		
A.....	78.....	7,500	Rock Creek Baptist Church.....	38	100
			S. J. Gass subdivision.		
6.....		7,500	Mission Church	225	1,500
30 acres...	.....		Glenwood Cemetery.....	30,000	10,000
62.43 acres.	.....		Georgetown College.....	18,629	200,000
33 acres...	.....		Convent of the Visitation	26,400	2,000
		187,200	.....do.....	13,248	112,000
50 acres...	.....		Rock Creek Church and Cemetery	5,000	10,000
72 acres...	.....		Mount Olivet Cemetery	15,000	... .
3 acres....	.....		St. Mary's Cemetery.....	900	... .
20 acres...	.....		Prospect Hill Cemetery	4,000	.....
3½ acres...	.....		Jews' Cemetery.....	263	.....
24 acres...	.....		Oak Hill Cemetery	25,000	30,000
7 acres....	.....		Young Men's Cemetery	1,400	.....
6 acres....	.....		St. Patrick's Cemetery	7,200	.....
14 acres...	.....		Harmony Cemetery	1,500	... .
30¼ acres..	.....		Graceland Cemetery	24,750	4,000
10 acres...	.....		Burial ground	1,500	.....
			Total.....	268,197	584,250

ROBERT P. DODGE, *Treasurer and Assessor.*

TABLE V.

TREASURER AND ASSESSOR'S OFFICE,
Washington City, July 1, 1880.

United States property in Washington County.

Number of square.	Square feet.	Acres.	Description.	Ground.	Improvements.
Section 8	.....	⅓	Barry Farm	$50	.....
Block 6	7,500	.....	Howard University (subdivision).....	375	$100
Block 10	7,500	.....	.....do	150	.....
		420	Government Hospital for the Insane	.....	*1,349,775
		150	Reform School.....	....	*221,056
		100	Columbia Institution for Deaf and Dumb.....	.....	*781,941
		494¾	Soldiers' Home	333,974	350,000
		275	Washington Aqueduct (included in Washington City)	.....	.....
		90	Magazine, United States Navy	45,000	55,000
		1	Smith's Spring	5,159	.....
			Total	384,708	2,757,872
			Total	.....	3,142,580

*Includes cost of grounds.

ROBERT P. DODGE, *Treasurer and Assessor.*

TABLE W.

TREASURER'S AND ASSESSOR'S OFFICE,
Washington, D. C., October 31, 1880.

Assessed value of the ground and improvements of each square in the city of Washington June 30, 1879.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
1	142, 527	$10, 923	$17, 250	$28, 173	$0 19
2	88, 744	17, 748	4, 000	21, 748	24
3	82, 347	20, 587	4, 000	24, 587	30
4	92, 249	19, 573	38, 300	57, 873	63
North of 4	33, 625	9, 760	8, 500	18, 260	55
West of 4	48, 252	6, 683	6, 500	.....	.....
(Water-lots)	243	243	300	13, 726	24
5	147, 439	21, 923	25, 200	47, 123	32
6	39, 320	5, 115	3, 800	8, 915	23
7	15, 419	2, 313	20, 000	22, 313	1 45
8	99, 715	24, 930	120, 000	144, 930	1 45
9	57, 465	14, 368	65, 200	79, 568	1 39
10	21, 767	2, 338	1, 450	3, 788	18
11	46, 870	4, 182	3, 550	7, 732	16
12	56, 098	4, 066	6, 650	10, 716	19
South of 12	86, 310	8, 630	1, 000	9, 630	11
13	191, 240	14, 521	4, 300	18, 821	09
14	111, 673	27, 713	17, 800	45, 513	41
West of 14	34, 644	7, 731	7, 900	15, 631	45
15	91, 653	28, 399	27, 900	56, 299	61
16	161, 005	32, 410	19, 000	51, 410	32
17	91, 615	9, 209	12, 900	22, 109	24
South of 17	8, 151	323	100	423	05
18	49, 900	9, 238	6, 000	15, 238	30
19	54, 808	5, 217	6, 100	11, 317	20
20	112, 150	7, 115	5, 950	13, 065	12
21	6, 348	3, 974	.....	3, 974	62
22	83, 855	4, 195	2, 600	6, 795	08
23	208, 728	12, 791	2, 000	14, 791	07
West of 23 (water lots)	.....	360	1, 800	2, 160	*1 00
24	251, 397	27, 149	18, 500	45, 649	18
25	206, 683	90, 212	42, 000	132, 212	64
26	20, 445	13, 122	33, 700	46, 822	2 29
27	62, 242	33, 140	90, 000	123, 140	1 98
28	190, 855	48, 556	42, 650	91, 206	49
29	45, 545	4, 642	6, 600	11, 242	24
30	46, 605	7, 484	12, 500	19, 984	42
31	125, 912	9, 875	9, 200	19, 075	15
32	94, 401	9, 456	15, 100	24, 556	26
33	157, 284	10, 495	5, 200	15, 695	09
35	95, 224	3, 809	.....	3, 809	04
36	155, 325	14, 360	37, 100	51, 460	33
37	112, 419	29, 539	25, 200	54, 739	48
38	48, 361	23, 749	16, 000	39, 749	82
39	33, 496	20, 098	25, 000	45, 098	1 34
40	70, 580	21, 610	15, 000	36, 610	51
41	87, 155	20, 106	23, 600	43, 706	50
42	92, 965	16, 924	15, 200	32, 124	34
43	48, 727	6, 794	9, 600	16, 394	33
44	93, 097	7, 074	2, 100	9, 174	09
47	13, 614	488	.....	488	03
48	45, 000	1, 199	1, 100	2, 299	05
49	106, 939	5, 188	3, 100	8, 288	07
50	155, 297	11, 122	6, 000	17, 122	11
51	111, 520	27, 513	26, 350	53, 863	48
52	16, 944	7, 661	22, 400	30, 061	1 77
53	20, 211	9, 095	.....	9, 095	45
54	93, 345	45, 291	38, 800	84, 091	90
55	87, 070	27, 167	41, 300	68, 467	78
56	100, 473	28, 845	24, 900	53, 745	53
57	68, 631	12, 949	21, 100	34, 049	49
58	22, 160	4, 152	7, 500	11, 652	52
59	45, 661	4, 521	7, 300	11, 821	25
60	51, 089	3, 810	2, 300	6, 110	11
61	118, 248	4, 109	400	4, 509	03
62	64, 504	1, 542	2, 650	4, 192	06
63 (water lots)	.....	286	300	586	*1 00
65	24, 225	3, 167	6, 800	9, 967	40
66	145, 523	28, 254	30, 000	58, 254	40
67	187, 364	28, 056	3, 000	31, 056	16
68	141, 242	12, 635	3, 600	16, 235	11
69	183, 251	13, 601	3, 800	17, 401	09

*Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
70	259,486	$34,975	$12,900	$47,875	$0 18
71	29,046	2,817	400	3,217	11
72	168,831	24,524	15,000	39,524	23
73	150,880	41,670	46,000	87,670	58
74	77,612	53,701	57,700	111,461	1 40
75	120,006	71,010	109,300	180,310	1 50
76	120,179	37,649	49,350	86,999	72
77	149,207	55,702	86,900	142,602	95
78	119,144	75,370	127,700	203,070	1 70
79	185,634	60,499	68,700	129,199	70
80	134,352	40,914	36,000	76,914	57
81	181,848	35,040	18,550	53,590	29
82	10,610	1,273	300	1,573	14
83	51,095	4,090	5,700	9,790	19
84	130,072	7,405	3,300	10,705	08
85	91,460	27,012	12,500	39,512	43
86	91,115	56,987	72,300	129,287	1 41
87	71,718	2,752	1,300	4,052	05
East of 87	117,936	3,807	1,300	5,107	04
88	189,163	5,651	3,000	8,651	04
East of 88	160,608	4,801	.....	4,801	03
89 (water-lots)	.....	371	.....	371	*1 00
90	38,056	6,443	14,700	21,143	55
91	39,510	8,364	400	8,764	22
92	79,799	6,246	900	7,146	08
93	158,796	37,198	.....	37,198	23
94	46,756	15,113	14,100	29,213	62
95	65,172	20,730	.....	20,730	31
96	103,352	18,842	.....	18,842	18
97	125,336	22,301	21,700	44,001	35
98	9,796	2,939	.....	2,939	30
99	143,025	43,325	29,400	72,725	50
North of 99	4,310	1,293	.....	1,293	03
100	218,384	53,860	23,900	77,760	35
101	118,581	76,784	94,700	171,484	1 45
102	146,008	61,377	95,400	156,777	1 07
103	98,373	47,277	87,600	134,877	1 36
104	159,834	40,144	40,200	80,344	50
South of 104	101,513	12,034	6,950	18,984	18
105	118,119	99,327	114,000	213,327	1 80
106	105,986	82,858	114,650	197,508	1 86
107	117,385	51,534	45,500	97,034	82
109	129,480	32,370	.....	32,370	25
110	126,519	26,207	22,600	48,807	38
111	102,283	28,225	17,100	45,325	44
112	10,836	4,604	7,750	12,354	1 14
113	37,771	16,234	60,000	76,705	2 02
114	34,019	15,105	8,600	23,705	69
115	137,525	55,663	.....	55,663	40
116	135,190	42,753	42,500	85,253	63
117	167,752	41,274	46,900	88,174	52
118	58,348	60,822	75,800	146,622	2 51
119	64,674	58,417	71,400	129,817	2 00
120	108,679	66,230	62,300	129,530	1 19
121	75,828	46,239	54,900	101,139	1 33
122	122,193	30,148	34,700	64,848	53
123	46,934	7,930	10,900	18,830	40
124	64,474	6,747	3,600	10,347	16
125	12,822	641	.....	641	05
126	157,350	176,584	184,800	361,384	2 29
127	158,057	169,167	242,700	411,867	2 60
North of 128	15,370	615	100	715	05
128	128,875	3,866	.....	3,866	03
129 (water lots)	.....	312	.....	312	*1 00
131	72,854	9,100	14,500	23,600	32
132	150,984	19,938	13,600	33,538	23
133	154,482	19,813	16,300	36,113	23
134	146,797	28,491	34,000	62,491	42
135	35,918	15,750	100	15,850	44
136	75,465	32,028	100	32,128	42
137	83,760	57,285	.....	57,285	68
North of 137	5,673	3,404	2,500	5,904	1 04
138	70,709	49,496	80,415	129,496	1 83
139	154,652	69,781	.....	69,781	45
140	212,010	55,119	55,250	110,369	52
141	145,718	95,065	86,200	181,265	1 24
142	102,206	59,833	82,400	142,233	1 39
143	157,664	44,558	20,000	64,558	40
144	116,260	10,492	4,700	15,192	12

* Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
145	84,736	$2,544	.....	$2,544	$0 03
146	28,244	847	.....	847	03
147	94,326	2,829	.....	2,829	03
148 (water lots)	.....	301	.....	301	*1 00
East of 148	120,071	2,403	.....	2,403	02
149	3,308	331	.....	331	10
150	134,786	13,665	$29,500	43,165	31
151	282,326	31,206	9,400	40,606	14
152	281,104	38,178	31,450	69,628	24
153	161,037	24,156	.....	24,156	15
South of 153	11,978	1,797	.....	1,797	15
154	132,153	16,997	13,600	30,597	23
155	280,655	40,334	.....	40,334	14
156	262,250	73,256	30,000	103,256	28
157	225,418	65,149	21,400	86,549	38
158	244,258	86,829	19,250	106,079	43
159	229,954	117,390	107,000	224,390	97
160	38,577	21,385	20,700	42,085	1 09
161	118,700	50,895	41,600	92,495	78
162	250,520	139,476	118,500	257,876	1 02
163	130,541	75,255	49,700	124,955	95
164	64,275	69,692	221,500	291,192	4 53
165	60,697	91,688	148,000	239,688	3 84
166	120,846	145,376	150,000	295,376	2 44
167	120,063	227,011	318,000	545,811	4 54
168	107,880	124,288	98,400	222,688	2 06
169	125,079	111,151	330,500	441,651	3 53
170	140,406	85,387	65,850	151,237	1 07
171	99,645	19,454	15,200	34,654	34
172	145,775	10,183	9,800	19,983	13
173	113,672	6,200	2,300	8,500	07
South of 173	215,111	21,511	6,000	27,511	12
174	75,744	11,511	3,000	14,511	19
175	125,840	19,676	.....	19,676	15
176	92,287	13,053	9,400	22,453	24
North of 177	27,083	4,091	16,400	20,491	75
177	150,618	23,617	800	24,417	16
178	172,660	37,986	.....	37,986	21
179	160,551	39,131	28,500	67,631	42
180	160,204	48,511	82,900	131,411	82
181	213,722	72,209	27,400	99,609	46
South of 181	9,422	4,037	400	4,437	47
182	135,928	55,436	77,550	132,986	97
North of 182	11,945	5,851	300	6,151	51
183	221,309	95,048	46,500	141,548	52
184	121,914	80,927	51,750	132,677	1 09
185	128,890	141,021	92,400	233,421	1 81
186	98,630	127,192	50,000	177,192	1 79
188	83,080	16,616	.....	16,616	43
South of 188	6,339	761	.....	761	12
North of 189	9,304	1,396	.....	1,396	15
189	96,897	16,299	.....	16,299	16
190	159,264	28,093	.....	28,093	17
191	155,427	35,276	28,700	63,976	41
192	167,237	50,127	14,500	64,627	38
193	155,288	44,768	23,600	68,368	44
194	164,601	54,952	57,450	112,402	68
195	217,433	81,941	47,500	129,441	59
South of 195	11,700	5,850	.....	5,850	50
North of 196	9,271	4,636	600	5,236	56
196	120,343	55,134	163,950	219,084	1 82
197	223,393	104,575	106,100	210,675	94
198	120,149	101,085	66,700	167,785	1 39
199	117,550	141,205	149,800	291,005	2 47
200	108,931	159,914	210,600	370,514	3 40
202	72,924	13,104	9,300	22,404	30
203	179,180	31,322	9,500	40,822	22
204	179,224	32,725	23,400	56,125	31
205	242,187	50,099	18,500	68,599	28
206	233,166	66,290	118,400	184,690	79
207	235,949	88,491	116,900	205,391	87
208	233,940	104,096	178,700	282,796	1 20
209	239,495	91,417	109,500	200,917	83
210	197,067	91,345	37,100	128,445	65
211	189,512	109,597	60,100	169,697	89
212	166,477	150,485	180,000	330,485	1 98
213	33,708	26,546	14,200	40,746	1 20
214	244,394	202,818	108,300	311,118	1 27
215	31,436	44,315	27,100	71,415	2 27
216	61,972	80,199	79,600	159,799	2 57

* Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
217	83,731	$136,802	$211,000	$347,802	$4 15
218	101,201	171,485	201,600	373,085	3 68
219	63,952	135,474	107,400	242,874	3 79
220	107,001	178,576	239,100	407,676	3 81
221	121,961	307,142	279,900	587,042	4 81
222	103,901	213,882	180,600	394,482	3 79
223	62,461	132,429	78,200	210,629	3 37
224	88,008	237,838	264,900	502,738	5 71
225	81,167	329,248	296,500	625,748	7 70
226	73,978	108,857	107,300	216,157	2 92
227	70,456	41,463	48,500	89,963	1 27
228	34,465	15,701	29,000	44,701	1 29
229	42,617	17,888	4,700	22,588	53
230	140,074	53,826	7,800	61,626	43
231	156,629	41,377	11,700	53,077	33
232	98,574	7,681	6,950	14,631	14
233	69,020	6,902	2,100	9,002	13
234	163,914	25,087	48,000	73,087	45
235	157,376	28,395	.....	28,395	18
236	156,279	34,157	45,500	79,657	50
237	201,336	41,053	5,100	46,153	22
238	215,987	52,349	68,800	121,149	56
239	206,000	77,282	87,700	164,982	80
240	208,488	78,917	193,500	272,417	1 36
241	186,048	86,274	89,700	175,974	94
North of 242	26,702	15,533	12,400	27,933	1 04
242	161,126	117,712	129,000	246,712	1 53
243	64,290	43,751	57,400	101,151	1 57
244	15,612	19,515	50,000	69,515	4 45
245	173,652	159,975	130,600	290,575	1 67
246	21,064	24,548	11,100	35,648	1 69
247	203,637	201,999	215,100	417,099	2 04
248	161,246	224,492	324,600	549,092	3 40
249	174,416	261,624	.....	261,624	1 50
250	152,033	174,342	165,900	340,242	2 23
251	24,988	36,696	76,500	113,196	4 53
252	200,403	231,109	300,200	531,309	2 65
253	127,507	203,813	163,900	367,713	2 88
254	171,078	363,078	338,300	701,378	4 09
255	47,381	43,386	28,200	71,586	1 51
256	46,033	60,556	91,800	152,356	3 31
257	57,927	27,043	22,800	49,843	86
258	67,427	34,414	40,300	74,714	1 10
259	91,447	42,681	5,100	47,781	52
260	73,690	32,938	4,600	37,538	51
263	102,152	21,786	51,900	73,686	52
264	102,165	24,071	54,300	78,371	76
265	66,178	10,546	19,300	29,846	45
266	66,354	13,649	14,650	28,299	42
267	70,930	12,411	9,600	22,011	31
Southeast of 267	8,100	2,430	1,500	3,930	48
268	50,704	9,493	13,200	22,693	44
269	37,073	6,107	4,900	11,007	29
270	19,554	4,889	.....	4,889	25
271	128,940	17,208	900	18,108	14
272	96,870	14,973	18,100	33,073	34
273	98,321	15,697	2,900	18,597	18
274	129,438	25,421	58,000	83,421	64
275	134,155	30,084	12,200	42,284	31
276	139,369	37,344	41,400	78,744	56
277	104,577	36,444	27,300	63,744	60
South of 277	10,861	6,105	6,300	12,405	1 14
North of 278	3,460	1,038	1,200	2,238	64
278	46,427	19,872	43,300	63,172	1 36
279	66,666	33,880	47,300	81,180	1 22
280	116,222	70,276	122,600	192,876	1 66
281	154,221	123,870	83,900	207,770	1 34
282	84,437	82,172	176,100	258,276	3 05
283	56,233	60,859	72,950	133,809	2 38
284	102,980	123,017	81,900	204,917	1 99
285	95,594	111,516	214,400	425,916	4 45
286	64,487	63,585	68,050	131,635	2 04
287	41,486	39,806	70,050	109,856	2 64
288	138,219	135,897	139,550	275,447	1 99
289	84,870	123,259	136,900	260,159	3 06
290	103,984	164,689	153,400	318,089	3 05
291	70,622	260,114	94,500	354,614	5 02
292	30,982	79,993	40,000	119,993	3 87
293	94,029	67,896	85,200	153,096	1 62
294	36,604	26,118	18,400	44,518	1 22

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
295	27,838	$29,838	$9,400	$39,238	$1 41
296	138,037	40,245	36,050	76,295	55
297	95,279	21,366	32,100	53,466	57
298	21,921	4,506	2,500	7,006	32
299	88,840	11,022	13,300	24,322	27
300	73,451	7,345	1,500	8,845	12
302	90,699	10,966	15,350	26,316	29
303	58,902	8,375	25,850	34,225	58
304	63,549	9,851	950	10,801	16
305	80,092	13,058	12,300	25,358	31
306	88,174	17,957	55,650	73,607	83
307	29,273	7,528	12,600	20,128	68
308	9,962	2,491	450	2,941	29
309	80,264	20,555	18,000	38,555	47
310	30,880	10,482	16,100	26,582	86
311	28,559	9,996	200	10,196	35
312	54,898	23,229	26,700	49,929	91
313	79,568	49,485	50,800	100,285	1 26
314	93,221	83,104	72,100	155,204	1 66
315	79,984	86,949	83,700	170,649	2 13
316	58,032	60,947	85,300	146,247	2 53
317	58,735	59,225	70,400	129,625	2 21
318	54,789	58,478	42,700	101,178	1 84
319	86,562	91,539	132,500	224,039	2 58
320	51,499	77,312	67,300	144,612	2 77
321	69,243	99,243	92,900	192,143	2 77
322	65,156	240,182	184,400	424,582	6 51
323	58,519	84,948	38,900	123,848	2 11
324	39,296	32,583	20,600	53,183	1 35
325	69,758	22,844	20,200	43,044	61
326	58,160	18,862	46,000	64,862	1 11
327	76,520	14,047	28,400	42,447	55
328	53,773	6,965	15,900	22,865	42
329	13,778	4,450	800	5,250	38
330	90,438	11,196	.....	11,196	12
331	57,338	8,434	8,350	16,784	29
332	63,825	11,302	26,250	37,552	60
333	77,364	14,723	17,950	32,673	42
North of 334	11,288	2,417	1,600	4,017	35
334	26,867	6,822	16,050	22,872	85
335	84,113	21,181	36,050	57,231	68
336	84,501	22,087	21,650	43,737	52
North of 337	5,523	1,593	1,700	3,293	59
337	53,419	19,488	8,550	28,038	52
338	55,775	22,714	36,250	58,964	1 05
339	72,251	42,645	88,600	131,245	1 81
340	90,045	65,049	83,400	148,449	1 64
341	86,540	82,015	88,300	170,315	1 96
342	52,097	49,576	71,300	120,876	2 32
343	55,734	49,174	24,000	73,174	1 31
344	58,094	59,126	74,200	133,326	2 29
345	90,905	93,200	74,000	167,200	1 83
346	50,505	87,440	65,000	152,640	3 02
347	65,824	93,545	112,600	206,145	3 13
348	80,783	206,853	111,700	318,553	3 94
349	45,607	87,164	43,500	130,664	2 86
350	39,114	35,864	19,400	55,264	1 41
North of 351	15,614	6,516	16,000	22,516	1 44
351	41,114	11,385	37,100	48,485	1 18
352	44,721	16,460	27,400	43,860	98
353	102,089	27,317	38,250	65,567	64
354	51,398	11,025	15,000	26,025	50
355	49,820	9,185	10,800	19,985	40
356	5,360	2,144	2,000	4,144	77
357	37,145	5,573	100	5,673	15
358	84,225	11,607	10,750	22,357	26
359	50,650	8,047	.....	8,047	15
360	48,396	10,044	.....	10,044	21
361	151,910	34,308	45,300	79,608	52
362	182,536	45,588	.....	45,588	25
363	178,700	50,473	84,100	134,573	75
364	158,189	48,384	90,500	139,784	88
365	179,146	80,037	207,800	287,837	1 61
366	122,181	61,806	127,500	189,306	1 55
367	167,749	96,008	52,000	148,008	88
368	213,535	162,503	165,550	328,053	1 53
369	193,535	169,232	183,400	352,632	1 82
370	102,939	101,510	75,950	177,460	1 72
371	46,077	52,124	112,550	164,674	3 57
372	50,824	88,846	50,600	139,446	2 74

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
373	103, 245	$116, 919	$143, 300	$260, 219	$2 52
374	128, 125	145, 270	159, 400	304, 670	3 36
375	188, 508	212, 054	357, 000	569, 054	3 03
376	120, 658	248, 097	123, 000	371, 097	3 07
377	152, 482	242, 564	320, 800	563, 364	3 69
378	175, 332	274, 605	183, 200	457, 805	2 61
379	55, 478	424, 376	191, 300	615, 676	11 09
380	35, 888	124, 287	110, 200	234, 487	6 53
381	38, 548	78, 539	66, 700	145, 239	3 77
382	96, 513	176, 020	80, 500	256, 520	2 65
383	101, 936	35, 254	29, 000	64, 254	63
384	37, 591	13, 769	100	13, 869	36
385	36, 764	13, 314	19, 800	33, 114	90
386	45, 683	13, 705	2, 500	16, 205	35
387	209, 956	38, 670	51, 000	89, 670	42
388	122, 481	27, 662	32, 650	60, 312	41
389	122, 140	18, 700	15, 900	34, 600	28
390	118, 014	11, 526	14, 300	25, 826	21
391	51, 940	5, 194	5, 600	10, 794	20
393	72, 786	13, 275	15, 700	28, 975	39
394	87, 001	21, 243	----------	21, 243	24
395	74, 012	18, 131	40, 000	58, 631	79
North of 396	36, 250	13, 508	----------	13, 508	37
396	24, 756	9, 902	13, 300	23, 202	93
397	84, 883	45, 191	42, 100	87, 291	1 02
398	55, 902	33, 456	36, 200	69, 656	1 24
399	75, 087	49, 767	55, 400	105, 167	1 40
400	89, 498	74, 277	82, 100	156, 377	1 74
401	89, 245	86, 508	69, 500	156, 008	1 77
402	69, 282	71, 770	122, 200	193, 970	2 78
403	67, 345	69, 196	64, 400	133, 596	1 97
404	63, 586	58, 827	68, 900	127, 727	2 08
405	79, 120	95, 093	74, 300	169, 393	2 14
406	58, 645	135, 188	110, 300	245, 482	4 18
407	80, 969	152, 938	145, 200	298, 138	3 68
408	45, 886	193, 797	96, 700	290, 497	6 33
409	69. 604	25. 243	6, 000	31, 243	44
410	38, 728	10, 908	28. 400	39, 308	1 01
411	90, 496	18, 457	30, 600	49, 057	54
412	47, 685	10, 655	21, 100	31, 755	66
413	49, 549	10, 431	15, 700	26, 131	52
414	54, 405	7, 613	10, 250	17, 863	32
415	54, 562	2, 728	800	3, 528	06
South of 415	29, 435	7, 359	2, 500	9, 859	33
416	47, 782	11, 385	16, 500	27, 885	58
417	85, 486	23, 009	19, 500	42, 509	49
419	85, 509	22, 092	34, 850	56, 942	66
North of 420	9, 833	3, 442	13, 700	17, 142	1 74
420	49, 045	20, 346	29, 000	49, 346	1 00
421	85, 502	50, 686	52, 600	103, 286	1 20
422	56, 997	43, 591	28, 400	71, 991	1 26
423	80, 001	81, 081	118, 600	199, 681	2 49
424	93, 853	98, 979	69, 900	168, 879	1 80
425	85, 270	108, 555	57, 000	165, 555	1 94
426	70, 730	94, 507	73, 700	168, 207	2 37
427	71, 294	132, 278	100, 500	232, 778	3 26
428	59, 011	107, 492	69, 600	177, 092	3 00
429	76, 489	151, 700	209, 100	360, 800	4 71
430	64, 299	321, 495	2, 124, 500	2, 445, 995	38 04
431	85, 228	286, 339	106, 900	393, 239	4 61
432	50, 173	276, 604	154, 700	431, 304	8 59
433	69, 564	39, 500	16, 650	56, 150	80
434	41, 269	17, 234	31, 400	48, 634	1 22
435	91, 087	28, 841	49, 950	78, 791	86
436	48, 433	16, 485	19, 600	36, 085	74
437	54, 508	15, 291	23, 300	38, 591	70
438	54, 553	11, 328	14, 300	25, 628	47
439	53, 708	7, 047	6, 900	13, 947	25
South of 439	43, 161	7, 553	2, 500	10, 053	23
440	18, 738	6, 558	5, 000	11, 558	61
441	182, 454	48, 183	38, 300	86, 483	47
442	172, 985	47, 618	45, 600	93, 218	53
444	164, 397	47, 217	41, 300	88, 517	54
445	182, 774	74, 770	16, 400	91, 170	50
446	125, 700	63, 870	48, 800	112, 670	90
447	165, 956	113, 241	85, 550	198, 791	1 19
448	191, 670	143, 440	127, 700	271, 140	1 41
449	187, 393	145, 622	133, 000	278, 622	1 48
450	107, 865	100, 580	67, 600	168, 180	1 56
451	49, 526	37, 383	37, 400	74, 783	1 51

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
452	93,465	$113,072	$110,900	$223,972	$2 40
453	129,694	158,585	126,150	284,735	2 20
454	187,878	233,678	60,100	293,778	1 56
455	117,480	182,556	171,400	353,956	3 01
456	150,326	328,398	284,800	613,198	4 07
457	167,899	334,865	267,100	601,965	3 64
458	56,101	170,755	119,700	290,455	5 18
459	36,210	95,678	87,600	183,278	5 06
460	35,350	224,685	56,300	280,985	7 95
461	76,599	276,128	154,400	430,528	5 62
462	97,337	46,732	55,900	102,632	1 05
463	34,321	10,896	15,400	26,296	77
South of 463	35,500	12,332	19,000	31,332	88
464	43,350	15,217	16,700	31,917	74
465	203,176	40,871	75,400	116,271	57
466	113,851	34,291	203,800	238,091	2 09
467	118,330	37,078	78,400	115,468	98
468	112,704	25,850	44,850	70,700	63
469	114,726	22,549	30,400	52,949	36
470	102,256	18,282	5,900	24,182	24
471	101,721	11,076	9,050	20,126	20
West of 471	26,820	5,364	100	5,464	20
472	101,805	20,361	1,700	22,061	22
473	113,016	20,372	2,300	22,672	20
475	55,754	11,159	24,200	35,359	63
East of 475	23,978	3,597	7,500	11,097	46
South of 475	36,058	7,390	21,900	29,290	81
476	18,987	4,747	8,400	13,147	69
477	84,083	17,218	23,300	40,518	48
478	83,027	20,969	31,300	52,269	63
479	56,050	17,108	15,400	32,508	58
480	71,209	29,531	29,000	58,531	82
481	92,441	53,107	56,400	109,507	1 19
482	78,272	45,307	500	45,807	58
South of 482	6,448	4,514	20,000	24,514	3 80
483	56,304	45,559	2,200	47,759	85
484	51,011	37,444	34,000	71,444	1 40
West of 484	44,900	43,198	22,300	65,498	1 48
485	50,618	39,970	46,100	86,070	1 70
486	72,250	50,475	50,500	100,975	1 40
487	48,069	42,626	44,000	86,628	1 80
488	61,907	69,687	107,000	176,687	2 85
489	76,110	114,721	104,400	219,121	2 88
490	148,324	210,122	187,300	397,422	2 68
491	149,157	420,060	355,100	775,160	5 20
492	158,981	56,899	79,000	135,899	85
493	143,722	42,339	38,400	80,739	56
494	223,906	55,863	140,600	197,463	88
495	134,786	39,322	45,650	84,972	63
496	134,971	39,712	55,200	94,912	70
497	136,504	29,858	45,150	75,008	55
498	135,589	27,314	45,950	73,264	54
499	116,460	20,422	24,450	44,872	39
500	117,666	20,506	31,400	51,906	44
501	143,623	23,541	33,350	56,891	40
502	264,450	39,650	54,050	93,700	35
503	229,829	32,545	21,600	54,145	23
504	88,662	9,940	.....	9,940	11
505 (arsenal grounds)	.....	.....	.....	.....	.....
506 (arsenal grounds)	.....	.....	.....	.....	.....
South of 506 (arsenal grounds)	.....	.....	.....	.....	.....
South of south of 506 (arsenal grounds)	.....	.....	.....	.....	.....
North of 507	2,098	315	.....	315	15
507	112,100	15,653	.....	15,653	14
North of 508	16,077	3,126	5,150	8,276	51
508	60,796	10,119	14,100	24,219	40
509	159,320	23,900	.....	23,900	15
East of 509	57,529	9,050	37,200	46,250	86
East of 510	4,830	725	.....	725	15
510	210,306	36,869	79,000	115,869	55
511	180,552	41,402	91,700	133,102	73
512	252,131	63,594	68,800	132,394	52
513	293,881	117,818	125,700	243,518	73
514	208,800	125,889	108,800	234,689	1 12
North of 515	83,641	41,106	56,950	98,056	1 17
515	210,730	95,853	116,600	212,453	1 01
516	199,457	106,152	115,000	221,152	1 11
South of 516	80,418	43,382	51,100	94,482	1 17
517	113,085	70,774	69,150	139,924	1 23
518	269,397	133,123	166,600	299,723	1 12

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
519	52, 647	$6, 318	$1, 100	$7, 418	$0 14
520	70, 694	9, 554	1, 600	11, 154	16
521	84, 022	11, 564	4, 700	16, 264	19
522	10, 196	2, 783	5, 500	8, 283	81
523	78, 673	34, 975	54, 100	89, 075	1 13
524	19, 999	11, 000	3, 100	14, 100	70
525	66, 975	28, 873	31, 400	60, 273	86
526	60, 475	22, 320	13, 950	36, 270	60
527	54, 235	25, 798	39, 400	65, 198	1 20
528	54, 264	32, 877	45, 700	78, 577	1 45
529	77, 181	39, 258	41, 650	80, 908	1 05
530	42, 912	26, 392	37, 450	63, 842	1 49
531	64, 989	51, 632	67, 000	118, 632	1 67
532	75, 744	71, 314	135, 100	206, 414	2 72
533	148, 500	188, 468	244, 900	433, 368	2 91
Reservation 2, part of	114, 300	180, 450	80, 000	260, 450	2 28
Reservation 7	143, 800	431, 400	148, 000	579, 400	4 03
Reservation 10	265, 465	352, 345	314, 000	666, 345	2 51
Reservation 11	142, 582	92, 655	79, 300	171, 955	1 21
Reservation 12	51, 804	78, 108	91, 400	169, 508	3 29
Reservation A	147, 646	153, 630	145, 500	299, 130	2 02
Reservation B	145, 650	237, 601	186, 000	423, 601	2 98
Reservation C	147, 159	49, 691	40, 700	90, 391	61
Reservation D	145, 784	49, 873	53, 900	103, 773	71
534	229, 666	56, 960	65, 750	122, 710	53
535	142, 825	38, 384	52, 800	91, 184	64
536	98, 823	22, 216	30, 550	52, 766	53
537	121, 177	28, 378	45, 000	73, 378	61
538	135, 581	32, 266	43, 400	95, 666	56
539	136, 667	25, 814	35, 750	61, 564	45
540	135, 743	25, 680	27, 350	53, 030	39
541	134, 320	17, 185	.....	17, 185	13
542	116, 010	13, 700	.....	13, 700	12
543	116, 467	13, 288	20, 825	34, 113	29
544	143, 696	15, 798	5, 600	21, 398	15
545	286, 794	26, 959	38, 850	65, 809	23
546	260, 920	14, 678	4, 100	18, 778	07
East of 546	112, 896	5, 645	.....	5, 645	05
547	106, 498	5, 270	.....	5, 270	05
East of 547	47, 361	1, 421	.....	1, 421	03
548 (arsenal grounds)	.....	.....	.....	.....	.....
East of 548 (arsenal grounds)	.....	.....	.....	.....	.....
East of east of 548 (arsenal grounds)	.....	.....	.....	.....	.....
549 (arsenal grounds)	.....	.....	.....	.....	.....
East of 549 (arsenal grounds)	.....	.....	.....	.....	.....
South of 549 (arsenal grounds)	.....	.....	.....	.....	.....
550	.....	.....	.....	.....	.....
551	26, 781	2, 678	1, 900	4, 578	17
552	286, 165	27, 712	25, 150	52, 862	18
West of 553	314, 094	30, 293	1, 150	31, 443	10
553	34, 779	5, 888	9, 400	15, 288	44
554	204, 089	22, 846	14, 300	37, 146	18
West of 554	274, 563	34, 015	4, 700	38, 715	14
555	5, 575	1, 115	100	1, 215	22
556	250, 681	58, 439	14, 400	72, 839	29
557	33, 594	10, 586	21, 100	31, 686	94
558	275, 221	55, 567	46, 450	102, 017	37
559	67, 696	20, 858	22, 750	43, 608	64
560	111, 680	26, 455	36, 050	62, 505	56
561	99, 277	65, 604	71, 300	136, 904	1 38
562	73, 584	31, 844	39, 000	70, 844	95
South of 562	99, 390	69, 353	85, 100	154, 453	1 55
North of 563	35, 639	21, 065	23, 350	44, 415	1 25
563	10, 313	6, 703	.....	6, 703	65
564	33, 746	15, 300	30, 800	46, 100	1 37
565	96, 329	46, 428	33, 800	80, 228	83
566	37, 771	17, 652	34, 400	52, 052	1 38
567	78, 000	41, 912	27, 900	69, 812	89
568	74, 201	31, 996	31, 200	63, 196	85
569	98, 850	62, 990	136, 500	199, 490	2 01
570	102, 831	44, 624	70, 550	115, 174	1 12
571	126, 024	84, 244	148, 800	233, 044	1 85
572	119, 736	55, 831	88, 700	144, 531	1 21
South of 572	31, 200	20, 167	38, 700	58, 867	1 89
573	33, 147	26, 678	23, 300	49, 978	1 51
574	79, 777	42, 930	55, 000	97, 930	1 23
575	152, 779	76, 687	61, 600	138, 287	91
576	101, 367	142, 628	80, 200	222, 828	2 20
577	105, 057	47, 897	51, 450	79, 647	76
578	114, 397	16, 682	21, 975	38, 657	34
	64, 507	10, 500	350	10, 850	15

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
579	85,991	$13,167	$19,400	$32,567	$0 38
North of 580	7,396	887		887	11
580	75,014	7,628	13,050	20,678	28
581	122,075	12,492	31,400	43,892	36
582	164,997	18,852	23,950	42,802	26
North of 583	8,132	1,222	1,200	2,422	30
583	78,926	8,205	17,600	25,805	33
584	71,493	7,564	21,300	28,864	40
585	78,922	8,113	18,550	26,663	34
586	80,323	8,116	16,900	25,016	31
587	77,418	7,434	13,800	21,234	27
588	58,047	4,798	4,200	8,998	15
589	77,919	5,463	4,800	10,263	13
590	33,544	2,526	4,750	7,276	22
East of 590	9,088	909	40,000	40,909	4 50
591	78,725	3,149		3,149	04
592	68,811	2,129		2,129	03
593	53,755	2,689	900	3,589	07
594	71,588	4,419	5,300	9,719	13
595	87,804	2,634		2,634	03
596	68,403	3,646	7,150	10,796	16
597	78,912	3,968		3,968	05
West of 598	31,657	950		950	03
598	83,342	3,404		3,404	04
599	83,987	2,520		2,520	03
600	12,994	390		390	03
601	129,199	4,097	2,400	6,497	05
602	63,329	1,925	1,000	2,925	05
603	125,474	3,767	400	4,167	03
604	50,466	1,515		1,515	03
West of 604 (arsenal grounds)					
605	67,494	2,025		2,025	03
606	71,951	2,161		2,161	03
Northwest of 606 (arsenal grounds)					
607	89,250	2,680		2,680	03
608	107,995	2,703		2,703	03
609	133,994	2,970	400	3,370	03
610	108,747	1,293		1,293	01
611	134,218	2,064		2,064	01
612 (water lots)		271			*1 00
613 (water lots)		254	100		*1 00
614	56,321	4,505	100	4,605	08
615	276,295	20,624	5,900	26,524	10
616	210,034	14,035	16,750	30,785	15
617	282,298	19,349	4,300	23,649	08
618	55,387	9,178		9,178	16
619	206,435	23,896	4,500	28,396	14
620	409,593	56,875	21,750	78,625	19
621	225,664	50,732	2,900	53,632	24
622	239,740	124,001	162,600	286,601	1 20
West of 623	44,197	26,000	98,100	124,100	2 81
623	198,289	71,576	272,200	343,776	1 77
624	265,753	92,237	301,700	393,937	1 50
West of 624	7,251	3,989	1,300	5,289	73
625	111,115	36,156	43,650	79,806	72
626	84,779	33,720	34,500	68,220	80
627	8,262	4,541	6,200	10,741	1 30
628	174,963	60,447	94,800	155,247	89
629	58,233	29,738	47,100	76,838	1 32
630	171,618	44,236	21,700	65,936	38
631	100,682	46,061	8,700	54,761	54
632	120,280	68,934	60,000	128,934	1 07
633	154,367	89,354	33,250	122,604	80
634	85,606	72,746	32,200	104,946	1 22
635	179,529	29,624	11,400	41,024	23
South of 635	14,738	1,179		1,179	08
636	88,733	21,140	2,200	23,331	26
637	84,977	6,644	1,500	8,144	09
638	83,478	12,603	9,700	22,303	27
639	30,035	3,304		3,304	11
640	95,007	7,496	8,850	16,346	17
641	65,027	6,958	20,600	27,558	42
North of 642	11,418	1,142	300	1,442	13
642	69,996	5,676	6,950	12,626	18
East of 642	68,433	5,007	3,500	8,507	12
643	80,041	6,830	4,200	11,030	14
East of 643	51,753	2,590	550	3,140	06
South of 643	86,790	5,718		5,718	06
644	20,242	1,012	1,250	2,262	11

* Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
645	74,218	$3,904		$3,904	$0 05
West of 645	32,500	2,248	$1,400	3,648	11
646	30,450	1,523		1,523	05
647	62,161	3,109	75,000	78,109	1 25
648	58,294	1,749	1,500	3,249	05
649	86,408	3,117		3,117	04
North of 650	22,915	1,146		1,146	05
650	176,916	11,069	4,925	15,994	09
651	180,980	11,208	2,100	13,308	07
652	181,358	6,961	6,050	13,011	07
653	175,753	7,085	5,400	12,485	07
654	87,540	2,628	900	3,528	04
655	87,540	2,628	500	3,128	03
656	132,869	3,982	5,250	9,232	07
657	134,093	4,027	1,000	5,027	04
658	79,586	2,389	1,300	3,689	05
660	66,520	1,996	1,100	3,096	05
661	108,951	3,260	400	3,660	03
662	100,668	3,080	3,400	6,480	06
East of 662	6,071	243		243	04
663	92,486	2,776	1,050	3,826	04
664	36,897	1,106	6,450	7,556	20
East of 664 (water lots)		568		568	*1 00
665		4,167	600	4,767	03
666 (water lots)		854		854	*1 00
667	115,467	3,353	150	3,503	03
East of 667 (water lots)		816			*1 00
South of 667	72,545	2,904	4,800	7,704	11
East of south of 667 (water lots)		411		411	*1 00
South of south of 667 (water lots)		129		129	*1 00
East of south of south of 667 (water lots)		129		129	*1 00
668	79,978	6,382	8,750	15,132	19
669	206,619	13,553	11,300	24,853	12
670	100,370	3,011		3,011	03
671	106,265	4,251		4,251	04
672	351,108	16,808		16,808	05
673	378,528	21,456		21,456	06
674	234,460	35,601	2,300	37,901	16
675	215,132	48,315	242,100	290,415	1 35
676	224,697	60,592	53,850	114,442	51
677	262,106	44,682	57,650	102,332	39
678	319,688	53,335		53,335	16
679	25,782	6,697	5,300	11,997	46
680	99,239	22,358	500	22,858	23
681	168,199	60,176	2,500	62,676	37
682	63,308	12,406	4,750	17,156	27
683	120,280	55,276	14,600	69,876	58
684	104,320	36,328	31,000	67,328	64
685	90,739	55,033	55,900	110,933	1 22
686	190,402	120,572	50,500	171,072	90
687 (Capitol grounds)					
688 (Capitol grounds)					
689	90,540	55,959	213,400	269,359	2 97
690	178,210	125,880	108,500	234,380	1 31
691	80,992	25,443	22,400	47,843	59
692	78,863	34,465	33,700	68,165	86
693	204,759	26,597	37,500	64,097	31
694	83,959	16,152	36,800	52,952	63
West of 695	88,099	5,290	3,750	9,040	10
Northwest of 695	56,150	3,369		3,369	06
695	73,573	3,724	3,600	7,324	10
696	72,068	4,326	4,800	9,126	13
697	72,056	3,606		3,606	05
North of 697	76,300	4,566		4,566	06
698	89,572	4,479		4,479	05
699	101,828	4,074	400	4,474	04
North of 699	72,025	3,604	2,000	5,604	08
700	181,080	8,382	3,200	11,582	06
701	181,080	8,497	9,100	17,597	10
702	156,279	6,223	6,500	12,723	08
703	183,544	7,859	7,500	15,359	08
704	95,782	3,836		3,836	04
705	87,961	3,521	200	3,721	04
706	74,880	2,248	900	3,148	04
707 (water lots)		128		128	*1 00
708	71,480	1,427		1,427	02
East of 708 (water lots)		378		378	*1 00
South of 708 (water lots)		548	2,000	2,548	*1 00

*Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
709	18,835	$1,507	$3,000	$4,507	$0 24
710	208,082	8,323	.....	8,323	04
East of 710	39,488	1,975	.....	1,975	05
711	255,914	14,066	100	14,166	05
East of 711	16,408	1,149	1,500	2,649	16
712	260,799	18,331	3,750	22,081	08
713	106,239	13,885	100	13,985	13
714	16,731	2,008	2,950	4,958	30
715	71,220	14,220	16,850	31,070	44
716	51,785	8,114	9,050	17,164	33
717	34,502	7,746	13,550	21,296	62
718	98,216	16,711	2,000	18,711	19
719	143,966	19,677	22,400	42,077	29
720	215,282	28,390	53,300	81,690	38
721	165,617	29,398	30,900	60,298	36
722	28,238	6,020	34,500	40,520	1 43
723	115,858	20,605	.....	20,605	18
724	184,521	51,168	52,300	103,468	56
725	243,509	108,181	93,200	201,381	58
726	41,833	28,574	13,800	42,374	1 01
727	38,627	24,048	54,200	78,248	2 02
728	146,147	107,583	88,300	195,883	1 34
729	146,267	107,260	85,550	192,810	1 32
730	40,383	35,537	24,000	57,537	1 42
731	41,767	40,063	19,700	59,763	1 43
732	234,401	116,315	177,250	293,565	1 25
733	134,444	50,462	78,600	129,062	96
734	159,433	29,288	18,850	48,138	30
735	67,823	8,593	200	8,793	13
736	212,318	21,232	5,000	26,232	12
737	88,077	6,532	7,200	13,732	15
738	26,270	2,727	4,600	7,327	28
739	34,347	3,436	4,000	7,436	22
740	44,447	4,067	12,200	16,267	37
741	49,176	4,134	8,500	12,634	26
742	31,903	2,996	4,800	7,796	24
North of 743	79,567	6,703	20,150	26,853	34
743	223,786	14,668	12,800	27,468	12
744	126,880	5,076	1,200	6,276	05
South of 744	118,689	3,560	.....	3,560	03
North of 747	3,451	207	.....	207	06
747	67,635	5,818	.....	5,818	09
748	182,811	18,682	3,400	22,082	12
749	92,958	10,301	22,300	32,601	35
750	96,256	9,600	.....	9,600	10
751	97,152	17,864	40,400	58,264	60
752	124,312	21,205	10,350	31,555	25
753	139,020	12,381	600	12,981	09
754	114,631	9,012	100	9,112	08
755	100,660	16,320	14,150	30,470	30
756	111,130	29,816	20,100	49,916	45
757	113,663	34,897	35,000	69,897	61
758	86,389	27,116	19,050	46,166	53
759	86,047	46,246	36,300	82,546	96
760	87,674	58,480	195,000	253,480	2 88
761	89,537	53,311	84,600	137,911	1 54
762	110,942	62,461	78,500	143,961	1 30
763	78,508	22,472	36,400	58,872	75
764	95,031	15,821	101,950	116,771	1 23
765	93,027	9,756	6,500	16,256	17
766	91,749	8,497	13,400	21,897	24
767	39,813	2,547	5,200	7,747	19
768	39,811	2,723	6,450	9,173	23
769	49,078	3,448	7,400	10,848	22
770	98,930	6,569	9,800	16,369	16
771	52,301	3,844	6,100	9,944	19
North of 772	8,720	523	.....	523	06
772	150,323	9,702	1,300	11,002	07
773	183,712	13,504	200	13,704	07
774	97,644	9,744	13,050	22,794	23
775	95,405	9,046	2,950	11,996	12
776	92,861	10,388	14,425	24,813	27
777	125,342	14,553	12,950	27,503	22
778	139,216	9,799	1,300	11,099	08
779	114,634	10,481	1,400	11,881	10
780	117,513	12,539	7,900	20,259	17
781	17,353	3,470	1,000	4,470	26
782	44,380	10,318	19,600	29,918	67
783	44,421	10,872	7,800	18,672	42
784	55,339	12,086	22,000	34,086	61

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
785	88,226	$22,226	$67,600	$89,826	$1 02
786	83,669	28,761	46,000	74,761	90
787	85,259	38,460	64,500	102,960	1 21
788	84,861	34,760	20,000	54,760	65
789	54,903	65,510	39,000	75,210	1 37
790	43,725	23,495	32,050	55,545	1 27
791	44,152	15,641	36,000	51,641	1 17
792	79,550	16,313	11,250	27,563	35
793	95,013	18,035	27,050	45,085	47
794	45,934	7,067	.....	7,067	15
795	102,157	12,331	15,900	28,231	27
796	107,655	12,538	12,100	24,638	23
797	39,271	4,069	10,550	14,619	37
798	66,982	5,251	15,050	20,271	30
799	67,996	5,360	15,100	20,460	30
800	83,485	6,153	9,400	15,553	19
801	165,012	9,555	16,000	25,555	15
802	41,630	3,330	9,100	12,430	30
803 (water lots)	.....	743	2,000	.....	*2 00
804	81,679	6,954	.....	6,954	08
805	124,685	12,680	3,200	15,880	13
806	67,557	7,246	5,300	12,546	19
807	66,236	5,698	2,100	7,798	12
808	62,604	8,008	5,000	13,008	20
809	77,437	9,471	15,300	24,771	32
810	100,872	7,163	.....	7,163	07
811	73,134	7,689	9,700	17,389	24
812	85,272	10,256	4,600	14,856	17
813	37,828	8,511	5,000	13,511	35
814	61,640	15,925	5,150	21,075	34
815	63,591	16,925	100	17,025	27
816	58,280	20,179	30,100	50,279	86
817	63,140	21,841	26,700	48,541	77
818	59,090	18,645	30,700	49,345	83
819	62,691	28,397	32,550	60,947	97
820	78,184	20,212	18,600	38,812	50
821	60,630	11,207	13,800	25,007	41
822	88,043	10,645	34,500	45,145	51
823	94,801	10,832	26,400	37,232	39
824	46,864	3,508	9,800	13,308	28
825	49,139	3,943	5,350	9,293	19
South of 825	62,110	3,427	9,100	12,527	20
826	121,762	1,944	600	2,544	02
827 (water lots)	.....	250	3,000	3,250	*2 00
828	45,997	3,381	1,300	4,681	10
829	120,386	11,878	14,350	26,228	22
830	65,010	5,185	900	6,085	09
831	61,506	4,915	.....	4,915	07
832	66,832	8,815	1,600	10,415	15
833	77,630	8,374	4,100	12,474	16
834	100,876	6,368	.....	6,368	06
835	73,135	5,857	2,700	8,557	12
836	85,272	9,638	5,200	14,838	17
837	37,828	7,111	7,900	15,011	40
838	61,104	14,414	9,350	23,764	39
839	63,588	13,504	800	14,304	22
840	51,553	20,741	22,000	42,741	83
841	58,008	20,735	22,400	43,135	74
842	63,734	17,061	34,500	51,561	81
843	63,523	18,217	32,900	51,117	80
844	78,638	20,080	18,000	38,080	48
845	59,029	11,149	17,800	28,949	49
846	81,882	11,454	17,600	29,054	35
847	118,778	11,654	26,750	38,434	32
849	44,904	2,200	3,100	5,300	12
North of 853	38,452	1,730	6,400	8,130	21
853	63,286	633	.....	633	10
North of 855	12,354	865	1,200	2,065	16
855	294,621	22,137	3,000	25,137	09
856	154,208	14,516	6,400	20,916	14
857	161,880	11,637	3,500	15,137	09
858	159,269	22,794	11,600	34,394	22
859	191,748	18,118	6,150	24,268	13
860	236,708	13,304	.....	13,304	06
861	171,498	13,402	200	13,602	08
862	22,067	22,067	.....	22,067	10
863	17,127	1,798	5,300	7,098	41
864	109,955	11,269	7,050	18,319	17
865	108,751	12,354	12,650	25,004	23

*Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
866	60,740	$7,999	$7,400	$15,399	$0 25
867	148,336	23,784	58,200	81,984	55
868	142,493	36,031	31,500	67,531	47
869	141,787	39,107	91,700	130,807	92
870	147,685	30,957	66,150	97,107	66
871	60,107	15,917	19,200	35,117	58
872	111,207	30,955	60,000	90,955	82
873	108,260	35,078	39,100	74,178	69
874	101,594	32,122	52,050	84,172	83
875	72,406	10,861	3,000	13,861	19
876	96,078	14,862	30,150	45,012	47
877	213,097	25,246	73,850	98,896	46
878	310,299	28,198	35,200	63,398	20
879	16,533	2,174	3,300	5,474	33
880	30,873	2,174	4,300	6,474	21
881	61,655	4,924	12,825	17,746	29
882	123,093	7,224	8,500	15,724	13
886	96,751	6,889	300	7,189	07
887	77,067	6,146	.....	6,146	08
888	78,212	5,893	4,000	9,893	13
889	72,750	9,636	26,200	35,836	49
890	87,385	10,645	10,400	21,045	24
891	110,100	10,166	6,200	16,366	15
892	81,100	9,846	16,300	26,146	32
893	50,987	5,817	7,900	13,717	27
South of 893	6,759	338	800	1,138	17
894	82,312	8,077	16,400	24,477	30
895	99,479	10,632	8,350	18,982	19
896	60,017	7,695	4,400	12,095	20
897	70,253	15,950	14,500	30,450	43
898	70,083	16,695	38,400	55,095	79
899	60,497	13,979	2,000	15,979	26
900	105,416	51,696	77,350	60,018	57
901	96,760	29,028	40,000	69,028	71
902	74,141	14,995	13,700	28,695	40
903	98,138	20,409	32,050	52,459	53
904	136,787	28,919	56,250	85,169	62
905	48,323	10,540	24,200	34,740	72
906	45,408	7,684	14,200	21,884	48
907	64,012	7,363	12,300	19,663	31
908	49,716	2,983	.....	2,983	06
909	80,357	3,157	.....	3,157	04
910	76,850	8,332	.....	8,332	11
911	78,860	12,033	.....	12,033	15
912	86,517	14,547	46,600	61,147	71
913	108,224	13,548	.....	13,548	12
914	86,355	9,135	1,600	10,735	12
915	7,500	996	500	1,496	19
South of 915	46,023	5,370	9,400	14,770	32
916	79,972	8,688	12,350	21,038	26
917	114,424	13,334	3,200	16,534	14
South of 917	13,713	2,057	1,500	3,557	26
918	12,218	1,955	1,300	3,255	26
919	71,015	14,598	25,300	39,898	56
920	71,309	14,522	18,200	32,722	45
921	14,007	2,551	800	3,351	23
922	13,768	2,754	3,700	6,454	46
923	105,748	17,261	14,450	31,711	30
924	100,285	20,429	9,500	29,929	30
925	63,156	14,143	28,950	43,093	67
926	94,669	19,227	32,350	51,577	54
927	156,157	81,235	329,637	360,872	2 31
928	57,665	10,097	17,650	27,747	48
929	18,908	3,085	3,450	6,535	34
930	37,706	5,838	14,400	20,238	53
North of 931	6,461	323	300	623	09
931	75,048	6,004	.....	6,004	08
932	68,102	6,899	12,800	19,699	32
933	68,345	10,751	37,200	47,951	70
934	80,309	13,383	19,100	32,483	40
935	76,320	12,786	19,300	32,086	42
936	68,779	6,555	.....	6,555	07
937	75,255	6,823	1,000	7,823	10
938	69,433	6,888	1,000	7,888	11
939	111,857	10,428	8,600	19,028	17
940	50,372	6,503	1,500	8,003	15
941	59,269	10,632	10,550	21,182	35
942	60,381	10,081	4,400	14,481	24
943	49,984	7,514	4,450	11,964	24
944	102,432	12,705	25,250	37,955	37
945	86,065	13,268	22,150	35,418	41

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
946	16,055	$2,690	$200	$2,090	$0 19
947	22,961	4,508	8,500	13,008	56
948	30,711	7,678	116,035	123,713	4 02
949	87,842	13,517	25,600	39,117	44
950	126,549	17,001	22,475	39,476	31
951	53,701	7,617	9,900	17,517	32
South of 951	28,005	3,511	1,350	4,861	17
952	29,697	4,053	12,050	16,103	54
953	117,898	8,316	5,950	14,266	12
954	80,773	3,545	.....	3,545	54
955 (water lots)	.....	232	.....	232	*1 00
956	61,030	3,652	3,150	6,802	11
957	72,266	4,764	3,300	8,064	11
958	73,691	9,006	3,200	12,206	16
959	79,467	9,813	14,250	24,063	30
960	98,917	10,666	24,350	35,016	36
961	29,657	2,858	1,900	4,758	16
North of 962	9,743	779	400	1,179	12
962	84,608	5,076	.....	5,076	06
963	84,590	6,764	2,200	8,964	10
964	112,281	11,383	5,000	16,383	14
965	80,438	8,048	1,200	9,248	11
966	24,041	4,526	800	5,326	22
967	24,042	4,408	8,700	13,108	54
968	83,040	10,363	9,250	19,613	23
969	100,484	11,484	200	11,684	12
970	62,817	7,541	5,200	12,741	20
971	40,333	4,951	17,300	22,251	55
972	59,809	8,963	21,200	30,163	50
973	100,753	15,397	13,150	28,547	28
974	145,907	20,784	19,400	40,184	27
975	54,343	7,664	13,000	20,664	38
South of 975	31,597	3,930	9,750	13,680	43
976	43,311	5,860	13,900	19,760	45
977	117,897	12,451	23,500	35,951	30
978	80,538	5,133	2,600	7,733	09
979	71,898	1,494	1,000	2,494	03
North of 980	21,260	1,276	.....	1,276	06
980	83,648	5,544	.....	5,544	06
981	79,662	8,773	.....	8,773	11
982	104,854	10,616	200	10,816	10
983	126,814	11,990	11,000	22,990	18
984	57,560	5,268	900	6,168	10
985	95,363	15,172	6,169	21,341	22
986	88,083	6,736	3,100	9,836	11
987	106,160	7,169	33,600	40,769	38
988	115,695	9,288	.....	9,288	08
989	109,404	13,312	40,350	53,662	49
990	111,011	11,664	19,500	31,164	28
South of 990	41,482	3,964	1,500	5,464	13
991	75,759	7,247	7,600	14,847	19
992	86,605	11,218	6,550	17,768	20
994	84,817	12,311	17,000	29,311	33
995	147,104	18,663	34,200	52,863	36
996	55,541	6,853	6,500	13,353	24
997	23,293	2,478	2,350	4,828	21
999	24,648	1,963	5,850	7,813	61
1000	136,763	7,564	12,150	19,714	14
1001	93,089	5,824	8,050	13,874	14
South of 1001 (water lots)	.....	540	400	.....	*3 00
1002	113,525	8,805	15,100	23,905	21
1003	132,348	13,292	600	13,892	10
1004	158,907	14,238	2,800	17,038	11
1005	127,859	10,942	3,850	14,792	11
1006	16,184	1,619	2,700	4,319	26
1007	140,606	10,951	5,250	16,201	11
1008	161,348	9,851	1,800	11,651	07
1009	146,576	8,792	.....	8,792	06
1010	193,361	13,535	6,600	20,135	10
1011	102,137	7,188	350	7,538	07
1012	50,069	4,005	.....	4,005	08
1013	44,803	3,584	.....	3,584	08
1014	99,948	7,770	100	7,870	07
1015	189,919	11,385	.....	11,385	06
South of 1015	7,850	471	.....	471	06
East of 1015	20,073	1,205	750	1,955	09
North of 1017	8,762	526	.....	526	06
1017	143,305	8,601	700	9,301	06
1018	143,468	10,758	17,950	28,708	20

*Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
1019	100,819	$10,102	$14,600	$24,702	$0 24
South of 1019	33,109	3,311	2,500	5,811	17
1020	247,162	16,826	21,400	38,226	11
1021	21,538	1,772	1,800	3,572	16
1022	15,702	1,257	1,300	2,557	16
1023	95,570	4,946	4,200	9,146	09
1024	88,045	2,641	300	2,941	03
1025	205,953	4,121*	.....	4,121	02
South of 1025	45,830	914	.....	914	02
East of 1025	109,631	2,192	.....	2,192	02
North of 1026	12,232	734	.....	734	06
1026	179,519	18,869	17,650	36,519	20
1027	221,952	21,475	5,200	26,675	12
South of 1027	14,066	844	.....	844	06
1028	249,091	18,341	2,200	20,541	09
1029	219,858	11,148	100	11,248	05
1030	236,544	10,336	50	10,386	04
1031	135,856	6,792	2,400	9,192	06
1032	68,191	3,409	.....	3,409	05
1033	230,414	11,667	5,250	16,917	07
Northwest of 1033	29,919	1,497	.....	1,497	05
1034	117,513	7,195	2,900	10,095	08
North of 1035	14,468	966	.....	966	06
1035	178,960	13,528	400	13,928	07
1036	173,894	10,426	.....	10,426	06
South of 1036	14,386	863	975	1,838	12
1037	122,584	7,354	400	7,754	06
1038	168,731	10,122	.....	10,122	06
1039	82,592	4,330	5,750	10,080	12
South of 1039	16,693	1,003	1,050	2,053	12
1040	44,545	2,672	.....	2,672	06
1041	178,246	8,917	500	9,417	05
1042	230,480	18,381	6,900	25,281	11
East of 1042	17,034	1,022	.....	1,022	06
1043	293,347	21,762	13,700	35,462	06
1044	28,950	1,737	800	2,537	08
1045	173,403	13,210	2,300	15,510	09
1046	254,682	14,207	5,800	20,007	08
1047	146,659	6,862	12,400	19,262	13
1048	185,882	5,581	100	5,681	03
South of 1048	41,327	413	.....	413	01
North of 1049	6,648	948	1,950	2,898	43
1049	28,734	4,352	3,600	7,952	27
1050	60,451	7,694	4,050	11,744	19
1051	180,980	12,613	300	12,913	07
1052	59,164	3,550	2,100	5,650	09
North of 1053	41,725	1,669	.....	1,669	04
1053	162,635	4,880	.....	4,880	03
1054	128,862	5,184	.....	5,184	04
1055	139,170	5,579	5,300	10,879	07
1056	116,402	5,175	.....	5,175	04
1057	110,348	4,464	.....	4,464	04
1058	111,120	4,683	5,500	10,183	09
1059	116,332	4,805	450	5,255	04
South of 1059	23,609	942	2,350	3,292	14
1060	181,043	7,520	2,050	9,570	05
1061	140,199	6,489	2,875	9,364	06
1062	92,347	3,941	.....	3,941	04
South of 1062	5,275	211	.....	211	04
1063	147,906	6,382	550	6,932	04
1064	28,873	867	.....	867	03
Northeast of 1065	49,261	1,479	.....	1,479	03
1065	186,617	3,732	1,100	4,832	02
1066	91,703	2,018	1,900	3,918	04
1067	97,724	976	.....	976	01
South of 1067 (water lots)	.....	515	.....	.....	*$1 00
1068	19,970	400	.....	400	02
Southeast of 1068	46,499	929	.....	929	02
1069	85,561	2,594	100	2,694	03
1070	82,820	2,484	.....	2,484	03
1071	83,820	2,514	1,150	3,664	04
1072	87,330	2,618	100	2,718	03
South of 1072	46,238	1,388	400	1,788	04
1073	131,313	2,972	.....	2,972	02
1074	103,024	2,965	.....	2,965	02
1075	104,192	3,798	250	4,048	04
1076	117,219	4,551	1,150	5,701	05
1077	163,781	3,279	.....	3,279	02
1078	68,607	1,600	1,800	3,400	05
1079	95,323	1,698	2,350	4,048	03

* Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
Southeast of 1079	3,699	$37		$37	$0 01
1080	5,518	56		56	01
South of 1080 (water lots)		172			*50
1082	113,744	1,676	$600	2,276	02
1083	87,048	2,228	800	3,028	03
1084	82,820	2,484	900	3,384	04
1085	83,269	2,878	2,250	5,128	06
1086	86,735	2,760		2,760	03
1087	113,870	2,728		2,728	02
1088	61,934	3,949	3,550	5,419	08
1089	103,928	2,080		2,080	02
1090	104,632	2,570	800	3,370	03
1091	60,345	2,642	250	2,892	04
South of 1091	36,252	1,088		1,088	03
1092	85,292	2,558	100	2,658	03
South of 1092	62,762	627		627	01
West of 1092	11,192	336		336	03
1093	142,252	2,945		2,945	02
1094	110,456	2,208	400	2,608	02
1095	104,272	3,131	2,250	5,381	05
1096	104,554	3,140		3,140	03
1097	110,454	3,314	300	3,614	03
1098	226,616	6,153	1,800	7,953	03
1100	131,254	3,227		3,227	03
1102	147,544	5,902		5,902	04
1104	146,531	5,861		5,861	04
1105	54,384	2,175		2,175	04
1106	54,384	2,175		2,175	04
1107	141,250	1,414		1,414	01
1108	110,594	1,107	650	1,757	01
1109	104,554	1,045		1,045	01
1110	103,550	2,073	3,500	5,573	05
1111	108,770	2,171	1,300	3,471	03
1112	275,061	5,504		5,504	02
Northeast of 1113	20,234	405		405	02
1113	60,727	1,215	100	1,315	02
1114	60,329	1,206		1,206	02
Southeast of 1114	20,540	410		410	02
1115	96,169	2,885		2,885	03
1116	96,232	2,887		2,887	03
1117	46,810	1,405		1,405	03
1118	80,596	808		808	01
1119	62,424	625		625	01
1120	58,948	592		592	01
1121	58,955	784	200	984	02
1122	61,324	614		614	01
1123	54,384	544		544	01
1125	80,596	806		806	01
1126	62,323	624		624	01
1127	60,948	612		612	01
1128	58,948	592		592	01
1129	62,364	624	1,000	1,624	02
1130	54,384	544		544	01
1131 (water lots)		50		50	*20
1132	80,598	808		808	005
1133	63,324	624		624	01
1134	58,948	296		296	005
1135	55,948	296		296	005
1136	62,294	316		316	005
1137	80,596	408		408	005
1138	62,338	316		316	005
1139	58,948	296		296	005
1140	58,948	296		296	005
South of 1140	60,942	310		310	005
1141	80,616	408		408	005
1142	62,294	316		316	005
1143	58,948	176		176	003
1144	80,592	248		248	003
1145	62,326	192		192	003
1146	58,953	176		176	003
1148	54,384	272		272	005
1149	54,384	164		164	003
1150	58,950	177		177	003
1151	62,538	125		125	002
1152	54,384	109		109	002
1153	58,950	118		118	002
1154	40,243	80		80	002
1155	80,598	80		80	001
1156	62,332	62		62	001
1157	58,950	59		59	001

*Per front foot.

TABLE W.—*Assessed value of the ground and improvements, &c.*—Continued.

Square.	Square feet.	Ground.	Improvements.	Total.	Per square foot.
1158	6,400	$6		$6	$0 001
1159	80,700	81		81	001
1160	62,332	62		62	001
1161	42,436	42		42	001
1162	62,332	62		62	001
1163	62,332	62		62	001
1164	20,600	21		21	001
1165	80,597	81		81	001
1166	62,332	62		62	001
1167	80,546	81		81	001
1168	62,332	62		62	001
1169	80,597	81		81	001
1170	62,332	62		62	001
Reservation 1	3,599,064	7,198,128	$13,578,685	20,776,813	5 77
Reservation 2	5,385,904	4,696,818	892,178	5,588,996	1 04
Reservation 3	3,631,562	1,815,781			50
Reservation 4	839,074	125,861	255,264	381,125	45
Reservation 5	3,054,017	1,221,607	255,324	1,476,391	48
Reservation 6	161,201	3,224		3,224	02
Reservation 8	181,221	906,105	2,848,778	3,754,883	20 72
Reservation 9	836,374	1,254,561	135,152	1,389,713	1 65
Reservation 13	3,361,199	189,348	540,550	729,898	22
Reservation 14	1,871,333	1,403,500	3,615,808	5,019,808	2 68
Reservations 15 and 16	118,752	9,500			08
Reservation 17	1,360,191	163,223		163,223	12
Reservation 17	2,635,865	7,907,595	15,099,656	23,007,251	8 73
Reservation 17	487,417	1,462,251	556,676	2,018,927	4 12
West of 576	53,398	53,398	5,000	58,398	1 09

	Acres.
Taxable, Washington City	2,649
Taxable, Georgetown City	345
Taxable, Washington County	22,413
Total	25,407

ROBERT P. DODGE,
Treasurer and Assessor.

TABLE X.

STATEMENT OF PARSONAGE PROPERTY IN WASHINGTON CITY.

Square.	Lot.	Taxes due.						Name assessed.
		1880.	1879.	1878.	1877.	1876.	1875.	
27	Of 9...	$65 67	$65 67	$85 80	$85 80	$85 80	$173 40	Martin J. Spaulding.
101	Of 29..	36 00	36 00	56 70	56 70	34 20	62 40	C. A. Davis and others.
121	Of 5..	Paid.	Paid.	Paid.	80 40	80 40	124 56	German Lutheran Church.
197	Of 20..	26 49	26 49	32 49	Paid.	Paid.	Paid.	Bethel Church.
197	Of s. 49 s. F.	62 18	62 18	37 23	37 23	37 23	(a)	Jas. R. Bayley, archbishop; 1876, Felix Barotti.
200	Of 8..	Paid.	Paid.	Paid.	Paid.	(b)	(b)	Vestry St. John's Church.
220	S. 10, 11	261 75	261 75	297 00	297 00	297 00	649 50	M. J. Spaulding.
252	Of 8...	104 24	104 24	187 88	135 38	135 38	150 57	Foundry Church.
252	S. 7....	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	William Maynadier and others, trust.
319	Of 11..	64 80	64 80	76 50	76 50	76 50	213 00	John P. Van Ness.
370	Of 3...	75 32	75 32	85 58	85 58	85 58	171 15	John C. Harkness and others, trust; F. S. Evans, trust.
375	Part..	.....	.....	.....	.....	.....	.....	Vestry Ascension Church.*
376	12 of s. 24	270 00	270 00	196 50	196 50	196 50	352 02	St. Patrick's Church; Sam'l Eccleston.
383	S. 17, 18	103 80	Paid.	Paid.	(b)	(b)	(b)	C. B. Pearson and others, trust.
387	Of 22, 23	Paid.	Paid.	Paid.	Paid.	Paid.	94 77	William Ryland and others.
406	Of 7...	131 91	131 91	148 25	125 75	125 75	284 13	U. Ward and W. Drake; James A. Kennedy.
423	Of 4...	(c)	(c)	(c)	.....	.....	250 02	M. J. Spaulding.
449	Of 24..	Paid.	Paid.	Paid.	Paid.	Paid.	153 48	D. Pfeil and others, trust.
466	22 to 26	.....	.....	.....	.....	.....	.....	St. Dominic's Church.†
466	2.....	46 28	46 28	63 98	63 98	63 98	174 24	St. Thomas Literary Society.
501	Of 24..	22 97	22 97	24 47	(b)	(b)	(b)	C. A. Poulters and others.
518	Of 5...	40 70	40 70	45 84	45 84	45 84	93 39	Samuel Eccleston.
S. of 572	Of 2...	72 60	72 60	125 10	125 10	125 10	228 00	Trinity Parish.
733	28.....	75 26	75 26	71 90	71 90	Paid.	(b)	M. J. Spaulding.
756	5.....	92 18	92 21	105 09	105 09	105 09	270 18	Managers St. Joseph's Society; Gonzaga College.
877	Of 7...	Paid.	Paid.	19 01	19 01	19 01	Paid.	Vestry Christ Church.
922	Of 2...	Sold.	Paid.	Paid.	Paid.	Paid.	Paid.	T. B. Marche and others, trust.
		1,552 15	1,448 38	1,659 32	1,607 76	1,513 36	3,444 81	

STATEMENT OF PARSONAGE PROPERTY IN GEORGETOWN, D. C.

38	Of 7, 8.	$71 15	$71 19	$60 00	$60 00	$60 00	$111 90	Methodist Protestant Church.
73	Of 46..	52 80	46 32	49 76	49 76	49 76	110 00	Methodist Episcopal Church.
61	Of 121. Of 122.	84 00	84 08	99 08	99 08	99 08	(b)	Vestry St. John's Church.
87	Of 198.	61 41	61 41	68 91	68 91	68 91	127 35	Vestry Christ Church.
100	O.....	45 87	45 00	90 00	90 00	90 00	119 15	Presbyterian Church.
57	76 to 80	Paid.	121 20	157 56	157 56	157 56	289 25	Catholic Church.
		315 23	429 20	525 31	525 31	526 31	757 65	

*Parsonage erected; taxable for 1881.
†Parsonage just built; assessed for 1881.
a No parsonage assessed.
b No parsonage.
c Not on tax-books.

TABLE X.—Continued.

STATEMENT OF PARSONAGE PROPERTY IN WASHINGTON CITY.

Square.	Lot.	Taxes due.						Name assessed.
		1874.	1873.	1871–'72.	1870.	1869.	1868.	
27	Of 9	$115 60	$115 26	$115 26	(a)	(a)	(a)	Martin J. Spaulding.
101	Of 29	(b)	(b)	(b)				C. A. Davis and others.
121	Of 5	(c)	(c)	(c)			Paid.	German Lutheran Church.
197	Of 20	(b)	(b)	(b)			(d)	Bethel Church.
197	Of s. 49 s.F.	(e)	(e)	(e)	(e)			Jas. R. Bayley, archbishop; 1876, Felix Barotti.
200	Of 8	(d)						Vestry St. John's Church.
220	S. 10, s. 11	433 00	273 70	242 26	$256 50	Paid.	(f)	M. J. Spaulding.
252	Of 8	(b)	(b)	(b)	(b)			Foundry Church.
252	S. 7	266 32	213 83	193 04	204 39	Paid.	Paid.	William Maynadier and others, trust.
319	Of 11	(b)	(b)	(b)	(b)			John P. Van Ness.
370	Of 3	(a)	Paid.	Paid.	Paid.	Paid.	Paid.	John C. Harkness and others, trust.; F. S. Evans, trust.
375	Part							Vestry Ascension Church.*
376	12 of s. 24	234 68	199 48	183 01	108 00	$84 00	$142 20	St. Patrick's Church; Sam'l Eccleston.
383	S. 17, of 18							C. B. Pearson and others, trust.
387	22, s. 23	(b)	(b)	(b)				William Ryland and others.
406	Of 7	209 42	(g)	108 58	114 97	89 42	115 86	U. Ward and W. Drake; Jas. A. Kennedy.
423	Of 4	216 68	(h)	(h)	(h)			M. J. Spaulding.
449	Of 24	62 32	Paid.	51 71		Paid.	Paid.	D. Pfeil and others, trust.
466	22 to 26							St. Dominic's Church.†
466	2	(d)	(d)	(d)				St. Thomas Literary Society.
501	Of 24							C. A. Poulters and others.
518	Of 5	(b)	(b)	(b)	(b)			Samuel Eccleston.
S. of 572	Of 2	(i)	51 00	51 00	54 00	(b)	(b)	Trinity Parish.
733	28	(d)	(d)					M. J. Spaulding.
756	5	(j)	(j)	(j)	(j)	(j)		Managers St. Joseph's Society; Gonzaga College.
877	Of 7	(b)	(b)	(b)			15 00	Vestry Christ Church.
922	Of 2	(f)	(f)	(f)				T. B. Marche and others, trust.
		1,538 02	853 27	946 86	356 39	173 42	273 06	

STATEMENT OF PARSONAGE PROPERTY IN GEORGETOWN, D. C.

38	Of 7, 8	$109 82	(e)	(e)	(e)	(e)	(e)	Methodist Protestant Church.
73	Of 46	88 00	(e)	(e)	(e)	(e)	(e)	Methodist Episcopal Church.
61	Of 121, 122	(d)	(d)					Vestry St. John's Church.
87	Of 198	101 88	(e)	(e)	(e)	(e)	(e)	Vestry Christ Church.
100	O	98 90	$69 36	$65 10	(e)	(e)	(e)	Presbyterian Church.
57	76 to 80	220 16	150 96	170 05				Catholic Church.
		618 76	220 32	235 15				

* Parsonage erected; taxed for 1881.

† Parsonage just built; assessed for 1881.

a Exempt.
b Not on tax-books.
c No entry on tax-books.
d No parsonage.
e No parsonage assessed.
f Private property.
g Paid by sale.
h Not on tax-books—exempt.
i Not on books.
j No parsonage on tax-books.

TABLE X.—Continued.

STATEMENT OF PARSONAGE PROPERTY IN WASHINGTON CITY.

Square.	Lot.	Taxes due.								Name assessed.
		1867.	1866.	1865.	1864.	1863.	1862.	1861.	1860.	
27	Of 9	(a)	(a)	(b)	(b)	(b)	.....	.....	.....	Martin J. Spaulding.
101	Of 29	.....	.....	.....	.....	.....	.....	.....	.....	C. A. Davis and others.
121	Of 5	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	German Lutheran Church.
197	Of 20	(c)	(c)	.....	.....	.....	.....	.....	.....	Bethel Church.
197	Of s. 49 s. F	.....	.....	.....	.....	.....	.....	.....	.....	Jas. R. Bayley, archbishop; 1876, Felix Barotti.
200	Of 8	.....	.....	.....	.....	.....	.....	.....	.....	Vestry St. John's Church.
220	S. 10, s. 11	(b)	(b)	.....	.....	.....	.....	.....	.....	M. J. Spaulding.
252	Of 8	.....	.....	.....	.....	.....	.....	.....	.....	Foundry Church.
252	S. 7	Paid.	Paid.	Paid.	Paid.	Paid.	(b)	(b)	(b)	William Maynadier and others trust.
319	Of 11	.....	.....	.....	.....	.....	.....	.....	.....	John P. Van Ness.
370	Of 3	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	Paid.	John C. Harkness and others, trust.; F. S. Evans, trust.
375	Part	.....	.....	.....	.....	.....	.....	.....	.....	Vestry Ascension Church. *
376	12 of s. 24	$118 50	(c)	(c)	(c)	.....	.....	.....	.....	St. Patrick's Church; Sam'l Eccleston.
383	S. 17, s. 18	.....	.....	.....	.....	.....	.....	.....	.....	C. B. Pearson and others, trust.
387	22, of 23	.....	.....	.....	.....	.....	.....	.....	.....	William Ryland and others.
406	Of 7	96 55	$84 96	(d)	(d)	Paid.	(e)	$4 50	$5 85	U. Ward and W. Drake; James A. Kennedy.
423	Of 4	.....	.....	.....	.....	.....	.....	.....	.....	M. J. Spaulding.
449	Of 24	Paid.	Paid.	(b)	(b)	(b)	.....	.....	.....	D. Pfeil and others, trust.
466	22 to 26	.....	.....	.....	.....	.....	.....	.....	.....	St. Dominic's Church.†
466	2	.....	.....	.....	.....	.....	.....	.....	.....	St. Thomas Literary Society
501	Of 24	.....	.....	.....	.....	.....	.....	.....	.....	C. A. Poulters and others.
518	Of 5	.....	.....	.....	.....	.....	.....	.....	.....	Samuel Eccleston.
S. of 572	Of 2	(f)	(f)	.....	.....	.....	.....	.....	.....	Trinity Parish.
733	28	.....	.....	.....	.....	.....	.....	.....	.....	M. J. Spaulding.
756	5	.....	.....	.....	.....	.....	.....	.....	.....	Managers St. Joseph's Society; Gonzaga College.
877	Of 7	12 50	11 00	$10 00	$11 00	Paid.	Paid.	Paid.	Paid.	Vestry Christ Church.
922	Of 2	.....	.....	.....	.....	.....	.....	.....	.....	T. B. Marche and others, trust.
		227 55	95 96	10 00	11 00	.....	.....	4 50	5 85	

STATEMENT OF PARSONAGE PROPERTY IN GEORGETOWN, D. C.

38	Of 7, 8	.....	.....	.....	.....	.....	.....	.....	.....	Methodist Protestant Church.
73	Of 46	.....	.....	.....	.....	.....	.....	.....	.....	Methodist Episcopal Church.
61	Of 121, 122	.....	.....	.....	.....	.....	.....	.....	.....	Vestry St. John's Church.
87	Of 198	.....	.....	.....	.....	.....	.....	.....	.....	Vestry Christ Church.
100	O	(g)	.....	.....	.....	.....	.....	.....	.....	Presbyterian Church.
57	76 to 80	.....	.....	.....	.....	.....	.....	.....	.....	Catholic Church.
		.....	.....	.....	.....	.....	.....	.....	.....	

Due from 1860 to 1874, inclusive, Washington, $4,867.35. Georgetown, $1,074.23. Total, $5,941.58.
Due from 1875 to 1880, inclusive, Washington, $11,225.78. Georgetown, $3,079.01. Total, $14,304.79.

ROBERT P. DODGE,
Treasurer and Assessor.

* Parsonage erected; taxed for 1881.
a Exempt.
b Private property.
c No parsonage.
d Paid by sale.
† Parsonage just built; assessed for 1881.
e Not taxed.
f Not on tax-books.
g No parsonage assessed.

TABLE Y.

Population of the District of Columbia, according to the United States Census of 1880.

	Males.	Females.	Native.	Foreign.	White.	Colored.	Total.	Chinese.	Japanese.	Indians.
Washington	68,320	78,987	133,070	14,237	99,128	48,179	147,307	13	4	5
Georgetown	5,854	6,724	11,764	814	8,819	3,759	12,578	....	1	....
Remainder of District	9,420	8,333	15,689	2,064	10,289	7,464	17,753	....	....	1
Total	83,594	94,044	160,523	17,115	118,236	59,402	177,638	13	5	6

NOTE.—The Chinese, Japanese, and Indians are also included under the heading "Colored."

ROBERT P. DODGE,
Treasurer and Assessor.

APPENDIX Z.

TREASURER AND ASSESSOR'S OFFICE,
Washington, D. C., September 14, 1880.

GENTLEMEN: I have the honor to submit the following estimate for the year 1881–'82. The amounts appropriated for this fiscal year were:

For salaries	$17,900
For contingencies	2,000
For county map	3,000
Total	$22,900
Treasurer and assessor	3,000
Assistant assessor	1,800
Chief clerk, and in charge personal taxes	1,800
Two tax clerks, Washington books	3,200
One tax clerk, Georgetown and county books	1,600
Four clerks and assistant assessors	4,800
One clerk for licenses	1.200
One clerk for licenses	900
One messenger	600
Salaries	18,900
Contingencies	1,500
Total	20,400

Very respectfully,

ROBERT P. DODGE,
Treasurer and Assessor.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

F.—REPORT OF THE INSPECTOR OF BUILDINGS.

OFFICE OF THE INSPECTOR OF BUILDINGS,
Washington, D. C., August, 1880.

GENTLEMEN: I have the honor herewith to transmit my annual report, covering the transactions of this office since July 1, 1879, together with recommendations and estimates for the fiscal year 1880–'81:

Tabular statement of permits issued for buildings, &c., from July 1, 1879, *to June* 30, 1880, *inclusive.*

No.	Description.	Value.
574	New brick dwellings and stores	$1,571,682 00
443	Brick repairs, including back buildings	171,697 00
25	Brick stables and carriage houses (private)	18,850 00
2	Brick livery stables	38,500 00
4	Brick churches	33,500 00
1	Hall	8,000 00
1	Market-house	10,000 00
1	Hotel	13,000 00
2	Apartment houses	112,000 00
9	Office buildings	32,900 00
1	Mill	15,000 00
540	Frame repairs, including back buildings	59,901 00
52	Frame dwellings (in county)	25,115 00
2	Frame stables (in county)	290 00
1	Frame church (in county)	1,000 00
136	Sheds for fuel, &c	9,518 00
20	Removals of frame houses	2,225 00
2	Ice-houses	2,700 00
2	Greenhouses	300 00
1	Boat-house	4,100 00
71	Awnings	.....
31	Vaults (being 413¾ linear feet)	.....
1,921	Permits, at a total value of	2,129,978 00

The total revenues for the twelve months amount to $3,577.50.

By reference to the above statement it will be seen that the total number of new buildings erected in the cities of Washington and Georgetown during the year is 625, and 55 in the county.

By comparing the total value of the improvements with that of the previous year it appears that it has increased half a million dollars, while the number of permits issued has decreased 60; this shows, as stated in my last report, that a steady improvement in the class of buildings erected is going on from year to year. There have been served 103 notices for violations of the building regulations, all of which have been complied with, and only in few cases has it been necessary to take the parties before the police court. There have been entered 90 complaints of defective and dangerous buildings all of which have been examined and the defects remedied.

There have been 41 condemnations of structures as dangerous to life and limbs all of which have been complied with.

DISTRICT BUILDINGS.

Police stations.

The repairs done to the three stations, third and fourth and eighth precincts (owned by the District), through this office amounts to $800.45. The repairs were as follows: In the third or Georgetown precinct the lot adjoining, used for hay-scales, was inclosed and an inclosed shed erected for the horse used by the mounted police. In the fourth and eighth precincts the second stories used for officers' sleeping apartments

were divided up into small and uncomfortable rooms. These stories have been changed into large and airy rooms, adding greatly to the comfort of the men. The water-closets and bath-room at the eighth precinct have been removed from the interior of the main building and placed in a separate bnilding at the rear, constructed specially for the purpose. The supply of water at the eighth precinct was insufficient, owing to being connected at the termination of the water-main by a small corroded pipe; it was found necessary to bring it a distance of 450 feet from the Fourth street main, and the evil has been remedied.

I have previously recommended the same change at the fourth precinct, and the work is being done now. I would further recommend ventilating the bunk rooms in these stations, which will cost about $175, and they will then be in excellent condition, and will only need the minor repairs arising from ordinary wear.

There has been expended on the rented stations during the year the sum of $96 for interior repairs, as I have required the owners to make the exterior repairs at their own expense. The rented stations are inferior to those owned by the District and cannot be made suitable without considerable expense. Especially would I again call your attention to the very unsanitary condition of the fifth precinct station on Tenth between D and E, where great sickness has prevailed among the officers during the past year. I would, therefore, recommend that the District construct, as soon as practicable, their own stations, as well for economy's sake as for the comfort of the men. The cost of a station, including lot, will be about $10,000. I would recommend for the fiscal year 1881–'82 the building of two new stations at a cost of $20,000, and an appropriation of $1,000 for repairs.

Market-houses.

There has been expended through this office the sum of $310 on repairs to market-houses. The Eastern and Western markets are substantial buildings, and in a good state of repair. The Georgetown market-house is in a rather dilapidated condition, especially the one-story portion of it. This I do not consider safe, the east and west walls leaning each 7 inches in their height. I am at present testing them, to ascertain if they are still moving; and if so, I shall promptly notify you, and although they may not be moving, it is possible that a heavy west wind may blow them over, and I would therefore recommend taking down this portion to the first floor, and rebuilding it. This will cost about $3,000, using the same material as far as practicable. The other portions of this market need repairs to brick work, &c., and painting, which will cost about $425.

The O-street market sheds, are, as I stated in my last report, in a dilapidated condition, and if there is no arrangement for a new market-house on this site during the year, I would recommend an expenditure of about $600 to keep the sheds in repair, as they are a source of revenue to the District, and a great convenience to citizens in that locality.

The contingent expenses in repairs to the Eastern and Western markets during the year will be about $300.

Public school buildings.

There have been erected two new school buildings, in accordance with the act of March 3, 1879, appropriating $37,500 for each, including purchase of lots, if necessary, and furnishing them complete.

The building on Massachusetts avenue, between Seventeenth and

Eighteenth streets was completed and accepted on September 1, and the appropriation has been expended as follows:

One-half of prize for best plan	$250 00
Assistant draughtsman	118 00
Printing, advertising, and surveying	70 17
Contract	34,396 00
Fence-wall, front fence and gates	875 00
Excavating and grading	172 62
Extra brick-work in depth of foundation	85 14
Superintendent's wages	248 50
	36,215 43
Balance	1,284 57

which is about the amount contracted for the furniture.

The other building is situated on C street between Fourth and Fifth streets northeast, fronting on Stanton square; it was completed and accepted on September 3. There being no large assembly room in that division (third) it was thought advisable to make provision for such in this building, and to that end Congress appropriated a further sum of $7,500 by act of June 16, 1880, to build said hall and build fence-walls, &c., making the total sum appropriated for this building $45,000, which has been expended as follows:

One-half of prize for the best plan	$250 00
Printing, advertising, and surveying	24 06
Purchase of lots	2,500 00
Contract for building	28,183 00
Additional story for hall	4,374 28
Additional fence round parking	511 80
Grading lot, areas for windows, &c	195 89
Finishing basement halls, sinks, &c	459 00
Guards to basement windows, yard-traps, &c	188 80
Sodding, graveling, &c	190 40
Paint iron fences	50 00
Tablet on front	50 75
Advance on iron, as per schedule in contract	3,462 66
Fifteen feet additional fence-wall	26 25
Three feet additional iron fence	6 75
Iron sill at front door	8 42
Superintendent's wages	154 00
	40,636 06
Balance	4,363 94

which is about the sum contracted for, furnishing the building complete and putting in gas fixtures.

These two buildings will compare favorably with any buildings of their capacity in the country. I consider the heating and ventilating (the two most essential features in a school building) as perfect and complete as it is possible to make them. The heating is done by steam generated in two tubular boilers placed in the basement, and from there circulated through coils, which are placed under the sills of the window recesses.

The ventilation is produced by one large ventilating shaft for each school and adjoining cloak room, the draft in these shafts being produced by coils of steam pipe and the smoke-stacks in two of them. These shafts are placed on the inner side of the school-room, and draw the foul air, while an equal amount of fresh air is supplied through registers under the window-sills and heated before entering the rooms by passing over the stea mcoils. This mode of direct heating has proved to be the only reliable one, and in some buildings now heated by indirect radiations, I have been compelled to put in direct radiating coils to assist the heating.

The dangers in the supply of fresh air being contaminated when it is taken in near the ground, as in the indirect radiating system, are entirely avoided by this system, as it is supplied direct in each story. The lighting of the school-rooms has been done in accordance with the best authorities on that subject, and is brought in from the left and rear of the pupils.

The halls are wide and spacious, and, together with the stairways, constructed of fire-proof material; they are thoroughly lighted.

In accordance with your order I took charge of the repairs to the public schools on July 1, 1879, and was furnished with a statement by each trustee of the repairs required in his division, in pursuance of which I made an examination of the buildings as to the necessity of the repairs as requested. I found a great portion of them very much out of repair, especially those in Georgetown and the county, the latter being in most cases so much run down that they were scarcely fit for occupancy.

The schools in the city have in most cases the same evidence in having been neglected in their repairs. I found it necessary to materially change the original estimates furnished me, and in order to keep within the appropriation I left off such items as were not, in my opinion, very necessary. In order to have the work done as economically as possible, I gave all the jobs that could be contracted for to the lowest bidders. Other portions, that were of a trifling amount and difficult to estimate or contract for, were done by days' labor, or intrusted to persons upon whom I could rely for a good quality of work at reasonable prices. I gave out 142 contracts, amounting in the aggregate to $12,528.96.

By comparing parallel cases, I find that this contract system has been a saving of about 30 per cent. over the system of days' work as previously followed by the mechanical janitor under the direction of the trustees.

There have been repaired 86 school buildings, and the amount expended by vouchers issued from this office amounts to $17,885.02. Foreman's salary, $1,248. The balance of the appropriation has been expended by payment of bills through the property clerk and for work ordered by the trustees—in both cases without apprising this office of the fact.

I would again state that I believe it to be to the best interests of the District that the repairs to the public schools, as well as to all District buildings, should be done through this office. I will then be able to conduct the work properly and account for the expenditures.

I would especially recommend that the east half of basement of the Wallach school be excavated similar to the west half and finished up for play-rooms, &c., and additional areas be made around the building, to improve its sanitary condition, which will cost, completed, the sum of $4,000.

The various school buildings are now in a tolerably fair state of repairs, but there are several of the large buildings that need painting, and I would therefore recommend an appropriation of $20,000 for repairs during the year 1881–'82.

Washington Asylum.

By your direction, the health officer an d myself made an examination of the asylum and reported to you, with suggestions to improve the sanitary conditions of the building and to make other necessary changes, which report was approved by you and the work ordered to be done.

The sewers under the building were first reconstructed, and a one-story brick building was built twenty feet east of the main building, for the purpose of a kitchen, bakehouse, laundry, and boiler-room, with a 12-horse upright tubular boiler and steam-pump. The boiler is intended for doing all cooking, heat water for laundry and baths, and to force the water with the pump to a 2,500-gallon tank, which has been placed above the fourth story of the main building. The cooking is done entirely by steam in six cast-iron cauldrons constructed with steam-chambers to stand a pressure of 75 pounds per square inch.

The laundry is fitted up with soapstone wash-trays, and the brick bake-oven, of the most improved construction, is placed in the bake-house.

In the boiler-room is located a steam-box for steaming the vermin from the bedding and clothing.

The Potomac water will not rise to a sufficient height, and for that reason the tank was placed above the fourth floor

The room previously occupied as a kitchen was fitted up for a store-room, the old one being small and damp, and entirely unfit for the purpose. The room used as bakehouse was fitted up as a bath-room and water-closet for women, and the room formerly used as laundry was fitted up in a like manner for the men, with three separate bath-tubs and water-closets in each.

The cooking, washing, &c., having been removed to a separate building, relieved the main building of the bad odors, and the building was thoroughly ventilated by cutting transoms over all doors, and hinged openings between corridors and stair halls; revolving cowls were placed on the roof to draw off the foul air. The officers' kitchen and dining rooms were also put in good condition, and the building is now free from all foul air and offensive odors, and has a free circulation.

The cost of making these improvements was $6,306.04.

Workhouse.

The main and center buildings are in good condition. The appropriation of $10,000, made this year for constructing the south wing, will construct the building, but not be sufficient to place it in condition to be occupied. It will be necessary to concrete the basement floor, connect it with the furnaces, put in 100 stationary iron bunks similar to those in the north wing; also put in the necessary gas fixtures, which altogether will cost about $2,000.

I would also recommend to build a drying-room, as there is washing to be done for from 200 to 300 people, and in wet weather it is much needed. To construct a one-story brick building and connect it with the south wing and fit it up with steam coils, &c., will cost about $500.

In this connection, I would recommend that a boiler of sufficient capacity, in place of the small one there, be placed in the building, and the necessary steam-heating coils put up, to take the place of the two hot-air furnaces. The economy in fuel would soon repay the expense of the change. The cost of boiler and coils would be about $1,700.

Engine-houses.

The engine and truck houses, with the exception of No. 4 and No. 5, are in good condition. No. 4 engine-house on Virginia avenue needs reconstruction to a considerable extent; the entire first floor, being of wood, should be taken out and a brick-on-edge floor laid and jointed in cement. The tracks should be new, and all of the building put in good condition; all of which I estimate will cost about $1,500.

No. 5 house in Georgetown should, as recommended before, be taken down and rebuilt, the present house being entirely unfit for the purpose, and is in a dilapidated and unsafe condition. I would therefore recommend building a new house, adapted for the purpose, on this or some better site, the cost of which will be about $6,500.

The repairs to all the engine-houses for the year will require an appropriation of $1,000.

Estimated expenses for this office for the year 1881–'82.

Salary of inspector of buildings	$2,400 00
Salary first assistant and draughtsman	1,700 00
Salary second assistant (on school buildings)	1,200 00
Salary third assistant	1,000 00
Salary one messenger	480 00
Contingencies (books, blanks, &c)	300 00
Total	7,080 00

RECAPITULATION OF ESTIMATES OF REPAIRS, &C.

Police stations:	
Two new buildings	$20,000 00
Repairs	1,000 00
Total	21,000 00
Market-houses:	
Repairs	4,325 00
School-houses:	
Addition to Wallach school	4,000 00
Repairs	20,000 00
Total	24,000 00
Workhouse:	
Addition and repairs	4,200 00
Engine-houses:	
Rebuilding Nos. 4 and 5	8,000 00
Repairs	1,000 00
Total	9,000 00
Sundry District buildings:	
Repairs	2,000 00

Respectfully submitted.

THOS. B. ENTWISLE,
Inspector of Buildings.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

OFFICE OF THE INSPECTOR OF BUILDINGS,
DISTRICT OF COLUMBIA,
Washington, D. C., September 20, 1880.

GENTLEMEN: In submitting the estimates for this department for the next fiscal year I placed them upon the base of the present year. I now submit for your consideration the following changes in making up your estimates:

First, I would ask that the salary of the assistant inspector be made $1,200 instead of $1,000. His work is difficult and laborious, and to fill the position he is required to have a knowledge that can only be acquired by years of experience. I have twice before called attention to it and asked that it be increased, as I think it deserves to be. The second item is that $300 be added to the miscellaneous expenses of this

department, to pay the expenses of horse and conveyance, which is an absolute necessity, for the reason that I have to be in the office from four to five hours each day, and the remaining portion I am required to supervise and inspect work that is scattered over the two cities and county. The third item is one concerning my position, which I propose to submit upon its merits. The inspector's salary previous to my appointment was $3,000, with an additional allowance of $300 for horse and conveyance. At the time of my taking the position it was cut down to $2,400, since which the work as well as the responsibilities have been steadily increasing, which in most part is from the construction and repairs of nearly all District buildings being placed in this office for supervision, and which is a saving annually to the District of at least $5,000, as previously nearly all this work was planned and supervised, and paid for, outside of the office. I would further state that a person to properly fill the position must have a practical and varied experience of at least twenty-five years. The inspector is also required to give his whole time to the duties of the office, and is restricted from being engaged in any other business, and which restriction, in my opinion, is a proper one.

Very respectfully,

THOS. B. ENTWISLE,
Inspector of Buildings.

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

G.—REPORT OF THE FIRE COMMISSIONERS.

OFFICE BOARD OF FIRE COMMISSIONERS,
Washington, September 15, 1880.

GENTLEMEN: We have the honor to submit herewith the following detailed statement of the transactions of the fire department of the District of Columbia for the fiscal year ending June 30, 1880, with recommendations as requested in your communication of the 16th ultimo; also estimate of the amount required for the support of said fire department for the fiscal year ending June 30, 1882, as requested in your communication of July 14 last.

EXPENDITURES AND ESTIMATES.

The auditor of the District of Columbia shows the expenditures during the fiscal year ending June 30 last, to have been $109,659.38, of which amount the sum of $105,471.98 was expended under the appropriation of 1880, and the balance, 4,187.40, under the appropriation of 1879. The chief engineer and superintendent of fire-alarm telegraph submit estimates for the next fiscal year aggregating $170,660. This aggregate is somewhat larger than was allowed for the fiscal year ending June 30, 1880, but we would be derelict in our duty if we permitted any false notions of economy to prevent us from uniting with the executive officers of the fire department in recommending the needed improvements which they suggest. There is much responsibility attached to the fire service, and taking into consideration the great value of the buildings, both public and private, in Washington, and the extensive area over which they are scattered, we can truthfully say that no city in the country is so inadequately supplied with apparatus for the extinguishment of fires. What we have is good, but there is not enough of it. The force is efficient, but not strong enough in numbers.

Thus far we have fortunately escaped any very large conflagrations, but the fate of other cities far better equipped should be a warning to us. Forewarned is forearmed.

BUILDINGS.

The buildings and rooms occupied by the department are as follows: Office for board of commissioners and chief engineer, room 26, Columbia Building; central office fire alarm telegraph, corner Pennsylvania avenue and Four-and-a-half street, N. W.; six fire-engine houses, and two truck-houses.

The recommendations of the chief engineer for the erection of new houses for companies Nos. 4 and 5, and of a new house in the northern section of the city, are approved.

The present engine-house of company No. 4 might be utilized for a police station-house, instead of renting as now, and a suitable engine-house built in a more favorable location.

APPARATUS.

The recommendation of the chief engineer, that the Amoskeag engines which have been so long in service be exchanged for new ones, is approved. These engines require constant attention and expensive repairs,

and as they cannot be expected to last much longer, we urge as an economic measure that before they are entirely worthless they be replaced. The rebuilding of the old truck is also a necessity.

HORSES.

The horses purchased during the past year were good ones, and placed the department in fair condition for means of rapid transit; but it is necessary that there should always be an extra number of serviceable trained animals on hand to meet emergencies. The purchase of the necessary fresh ones is estimated for.

FIRE-ALARM TELEGRAPH.

This branch of the service continues to work in a satisfactory manner, but it is necessary that some additional boxes should be erected in several sections of the District, as set forth in the accompanying report of the superintendent.

FIRE-PLUGS.

Without a proper water-supply the services of the fire department are of but little avail. Particular attention is therefore asked to that portion of the chief engineer's report which suggests the erection of new and the change of old fire-plugs, the increase in size of water-mains, and the construction of cisterns in certain exposed and illy-supplied sections of the District.

DISABLED FIREMEN.

We are again constrained to call attention to the fact that no provision is made for members of the department rendered unfit for active service by disability incurred in the line of duty. We are compelled to carry these men on the rolls or else discharge them from the force, broken in health and unable to make a living for themselves or families. We again recommend that provision be made for such men in other branches of the public service better suited to their physical condition. Where men are so far broken in health or maimed by accident as to be totally unfit for any duty whatever, they should be retired upon pay sufficient to keep them comfortably during the continuance of their disability. There are men now on the rolls who will never be able to perform active duty as firemen, and provision should be made for them at once and their places on the force filled by active men.

THE PERSONNEL OF THE FORCE.

The general good conduct of the officers and men is notable in so large a force, and seems to increase from year to year as shown by the decreasing number of punishments inflicted for violations of the rules, while the efficiency of the department is also increasing, as shown by its almost uniform success in confining fires to the structures in which they originate. Much of the credit for this is due to the zeal and intelligence of Chief Engineer Cronin, who is indefatigable in promoting the discipline of the force and otherwise increasing the usefulness of the department. His theoretical and practical knowledge of the causes and nature of conflagrations, and the best means of suppressing fires, have won him reputation abroad as well as at home, as shown by his election to the presidency

of the National Convention of Fire Engineers last year, the attention attracted by his articles in the Firemens' Journal, and the recent action of the New York Fire Department in adopting his improved extension ladder. He is faithfully seconded in his exertions for the improvement of the department here by his able assistant, Col. W. O. Drew.

The fire-alarm service has been well managed by Superintendent Miles and his assistants, who have kept the apparatus in excellent order, so that there has been no unnecessary delay in turning in correct alarms, thus enabling the firemen to visit the scene of danger in the shortest possible time after fire is discovered.

We sincerely thank you, gentlemen, for your hearty co-operation with us in measures designed to promote the best interests of the fire department; and have reason to feel grateful for the prompt recognition by both houses of Congress of the claims of the department on the general government, millions of dollars' worth of public property having been saved by our local firemen before a dollar was appropriated by the United States to aid in its support.

Estimate of expenses of the Fire Department of the District of Columbia for the fiscal year ending June 30, 1882.

Regular expenses:	
Salaries (see detailed estimate of chief engineer)	$71,840 00
Repairs to apparatus, including rebuilding truck	5,000 00
Repairs to houses, incidental	1,000 00
Rebuilding Nos. 4 and 5 houses	10,000 00
Forage	4,500 00
Purchase of hose	5,000 00
Fuel	1,500 00
Purchase of horses	2,500 00
General and miscellaneous expenses, supplies of all kinds	12,000 00
Expenses fire-alarm telegraph (see detailed estimate of the superintendent)	10,200 00
	123,540 00
Extraordinary expenses:	
Purchase of lot and erection of house in northern section of city	$10,000 00
Exchanging three old Amoskeag engines for new	9,000 00
Salaries for new company in northern section (see detailed estimate of chief engineer)	7,920 00
Cost of fifty additional fire-alarm boxes, and erection, &c	10,000 00
	36,920 00
Grand total	$170,660 00

With great respect, we remain, gentlemen, your obedient servants,

W. R. COLLINS,
PETER F. BACON,
W. B. REED,
Fire Commissioners of District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX G 1.

REPORT OF THE CHIEF ENGINEER.

WASHINGTON, D. C., *August* 23, 1880.

GENTLEMEN: In compliance with the request of the Commissioners of the District of Columbia of July 14 and August 16, I submit herewith a report of the working of the fire department from July 1, 1879, to June 30, 1880, a detailed statement of the number of fires during that

period, roster of members, an inventory of the property of each company, estimate for the expenses of said department for the fiscal year ending June 30, 1882, and certain suggestions and recommendations that, in my judgment, are necessary to further increase its efficiency.

An accompanying table, marked A, shows that during the year ending June 30, 1880, there were 120 alarms, of which 109 were for actual fires, 4 false alarms, 6 chimney fires, and 1 test alarm. The actual fires involved an alleged loss of $133,450, with an insurance of $100,050.

Table B shows the number of fires and amount of losses from the organization of the department to date. By reference to it it will be seen that the losses for 1880 were $52,000 in excess of the previous year, and an increase of $31,000 over the average for the past ten years.

APPARATUS.

The apparatus on hand consists of 8 engines, 8 hose carriages, 3 hook and ladder trucks, and 1 fuel wagon. Five of the engines are in good, and 3 in fair order. The hose carriages are all in good condition, and 2 of the trucks with ordinary repairs will answer for several years. The fuel wagon is new. The 3 Amoskeag engines, rated as fair, have been in service since the organization of the department fifteen years ago, and as a matter of economy, as well as safety, I earnestly renew my recommendation of last year, that they be exchanged for new engines. The third truck is sadly out of repair, and I again urge an appropriation of $1,000 for rebuilding it, for should one of the others by an accident become disabled it will seriously cripple this important branch of the service.

HOUSES.

The houses are 8 in number, and 6 of them are in excellent condition, and will only need the usual incidental repairs, but No. 4, in South Washington, and No. 5, in Georgetown, are really unfit for fire purposes, and I recommend that a sufficient appropriation be made to rebuild the former on a suitable site. As far as the No. 5 is concerned, I have but to repeat my former statement. The site is a very bad one for the purpose, the house is too small and too old, and so dilapidated as to render it unsafe. I again request that a new location be selected, and a new house erected for this company. The people of Georgetown have a right to demand this, as it is the only company located within the limits of their old corporation.

As has been stated in previous reports, a new house (and company) is an absolute necessity in the northern section of the city, and I most respectfully urge that the proper steps for the erection of one be taken immediately. We have now two reserve engines, and the only expense to be incurred will be the purchase of the ground, the construction and furnishing of the house, and the salaries of the men.

HOSE.

There are now in the department 15,600 feet of fabric hose in good, 3,700 feet in fair, and 3,400 in bad or unserviceable condition. There are also 650 feet of worn-out leather hose. During the year there were 6,500 feet of fabric hose purchased. As the average duration of hose is between three and four years, and as it is necessary that there should be no lack of this article, we are required to purchase each year a sufficient quantity to keep the companies all well supplied, and also to make good any extraordinary deficiency which may occur through accident.

HORSES.

There are now in the department 38 horses, of which 32 are in active service. During the year 8 new ones were purchased, 7 worn-out, condemned ones were turned over to the property clerk, and 2 died. A good supply of serviceable horses, with extra ones for each company, is requisite, hence the item for the purchase of new horses in the estimates.

WATER SUPPLY.

On this topic I cannot do better than renew my recommendation of last year, as follows:

I beg leave to call your attention to the comparatively unknown fact that in the business portions of the city the present supply of water, or water-fixtures, is inadequate to properly work the full force of the department in the event of a large fire. This is a most important subject, and the proper and permanent remedy would be either in larger water-mains, or in reopening the old and constructing new cisterns in several sections of the city. This can be done at a comparatively small cost, and the advantages to be derived will be great.

It is useless to ask for the erection of additional fire-plugs along the line of 6 or 4 inch mains, for those now up cannot supply sufficient water for our engines working at a high pressure, and for this reason I urge either cisterns, or large mains, or both.

In addition to this, the old plugs with 9-inch outlet should be at once altered to 10-inch, as this will secure uniformity and in many cases insure a larger flow of water.

A special point in the city to which I beg leave to call your attention is the Government Printing Office, a building which, in addition to the host of persons who are employed there day and night, contains so much valuable property. This building is old, illy constructed, and although crowded with inflammable material, was constructed without any regard to safety from fire. In its vicinity there are but few plugs, and they are on small mains. I beg that a 12 or 20 inch main be placed around the building, additional plugs erected, and that at least two cisterns be dug in that locality; for, besides the Printing Office, there are in that vicinity several hundred buildings, built in rows, many of them without even brick partition walls, and all liable to rapid destruction in the event of a fire without a full supply of water.

FIRE-ESCAPES.

For the fifth time I call attention to the necessity of fire-escapes in all large buildings where numbers of persons congregate.

In addition to fire-escapes I would recommend that on all the government buildings, and hotels in the city, iron ladders reaching from the ground to the roof, be constructed and kept in position at all times, thus providing a mode of reaching or escaping from the roof in time of fire. Such ladders could be placed against inside or court-yard walls of the public buildings, and in the others suitable places could be found so as to prevent their interfering with the appearance of the building. I notice with regret that many of the merchants have been permitted to erect upon the tops of their buildings large sign-boards, mostly of wood. This is a most dangerous practice, for in the event of a large fire they are liable to be lifted by the heat and in this burning condition carried squares distant, to the imminent danger of other property. Further than this, in the business portion of the city all large mercantile houses should be furnished with iron shutters. If these suggestions could be incorporated in the building laws I am sure they would add greatly to the security of property in the event of fires.

NATIONAL CONVENTION.

During last September the National Association of Fire Engineers held their seventh annual session in this city, and as an evidence of the

manner in which they appreciated the hospitalities of the city I reprint the resolutions adopted by them, as follows:

THANKS FOR ABUNDANT HOSPITALITY.

Chief Stockell presented the following report, which was adopted enthusiastically by a rising vote:

Whereas the seventh annual convention of the National Association of Fire Engineers is being brought to a close; and

Whereas it is due to the authorities of the District of Columbia, chief of fire department, citizens, and proprietors of the Riggs House, that some fitting testimonial should be given for the many attentions that have been extended to us during our stay in the city of Washington: Therefore be it

Resolved, That we tender to the authorities of the District our heartfelt thanks for the many attentions extended to our departments, and to Chief Cronin it is almost impossible to sufficiently express our thanks, but to the Commissioners and citizens of Washington we would commend him for the many manly kindnesses, and also recommend him as a gentleman highly competent to manage successfully the department of which he is in charge, as well as thank him for the attentions extended to ourselves individually while present at the convention.

And to the citizens we are under many obligations for many attentions extended to ourselves and our wives who accompany us from distant cities.

To the proprietor of the Riggs House we extend our thanks for the many accommodations extended to us, and would cheerfully commend him as an excellent host, with a house elegant in every particular, and servants well drilled in their duties to care for the wants of visitors.

Also to the Press, who have been ever attentive at our business meetings, reporting our proceedings correctly on all occasions, we extend our hearty thanks.

And last, but not least, we extend our thanks to the chief of police for his forethought in providing sufficient police on all occasions to keep back the crowd in time of testing apparatus, machinery, or parades.

WM. STOCKELL, *Chairman.*
H. C. SEXTON.
D. E. BENEDICT.

CONCLUSION.

In concluding I beg leave to convey my sincere thanks to the Commissioners of the District, to you gentlemen of the fire board, to the major and superintendent, and officers of the Metropolitan police, for many courtesies extended and assistance rendered; to the assistant chief engineer, and to the rank and file of the department, whose excellent conduct, zeal, and efficiency in the discharge of their respective duties during the year served to maintain the good name which the District of Columbia fire department has so justly earned.

Respectfully submitted,

MARTIN CRONIN,
Chief Engineer.

The BOARD OF FIRE COMMISSIONERS.

Estimates for expenses of fire department for year ending June 30, 1882.

2 commissioners, at $200	$400 00
1 commissioner and secretary, at $400	400 00
1 chief engineer	1,800 00
1 assistant chief engineer	1,400 00
8 foremen, at $1,000	8,000 00
6 engineers, at $1,000	6,000 00
8 hostlers, at $800	6,400 00
6 firemen, at $800	4,800 00
2 tillermen, at $800	1,600 00
54 privates, at $720	38,880 00
3 watchmen, at $720	2,160 00
	71,840 00

Repairs to apparatus, including rebuilding truck	$5,000 00
Repairs to houses, incidental	1,000 00
Rebuilding Nos. 4 and 5 houses	10,000 00
Forage	4,500 00
Purchase of hose	5,000 00
Fuel	1,500 00
Purchase of horses	2,500 00
General and miscellaneous expenses, supplies of all kinds	12,000 00
	41,500 00
	71,840 00
Total	113,340 00

Estimates for extraordinary expenses for year ending June 30, 1882.

Purchase of lot and erection of house in northern section of city	$10,000 00
Exchanging three Amoskeag engines for new	9,000 00
Total	19,000 00

Salaries for new company in northern section.

1 foreman	$1,000 00
1 engineer	1,000 00
1 fireman	800 00
1 hostler	800 00
6 privates	4,320 00
Total	7,920 00

TABLE A.—*Statement of fires and losses for year ending June 30, 1880.*

Date.	No. of alarms.	Actual fires.	False alarms.	Chimneys, fires.	Tests.	Losses.	Insurance.
1879.							
July	5	5	.....	.....	.....	$700	$700
August	6	5	1	.....	.....	1,300	1,100
September	7	4	1	1	1	1,300	1,300
October	12	12	.....	.....	.....	5,550	4,750
November	10	10	.....	.....	.....	800	700
December	14	13	.....	1	.....	44,100	41,000
1880.							
January	11	8	1	2	.....	61,750	38,250
February	15	14	.....	1	.....	4,400	2,450
March	12	12	.....	.....	.....	3,600	2,100
April	15	13	1	1	.....	4,350	3,900
May	6	6	.....	.....	.....	3,900	2,600
June	7	7	.....	.....	.....	1,700	1,100

Schutzen Park, in county, burned; loss, $15,000; insurance, $11,000; one man burned to death.

TABLE B.—*Statistics of number of fires which occurred in the District of Columbia from the organization of the paid fire department to the present time.*

Year.	No. of fires.	Losses.	Year.	No. of fires.	Losses.
1865	55	$121,500	1873	139	$161,500
1866	95	259,000	1874	109	99,500
1867	55	101,000	1875	132	68,000
1868	53	138,000	1876	121	40,230
1869	87	153,000	1877	131	*90,900
1870	127	118,000	1878	75	16,950
1871	97	200,000	1879	114	81,400
1872	95	141,000	1880	109	133,450

*Loss by Patent Office fire not included.

APPENDIX G 2.

INVENTORY OF COMPANIES.

Inventory of Engine Company No. 1 *of stock, &c., for year ending June* 30, 1880.

SITTING-ROOM.

1 writing-desk.
1 stove.
1 carpet.
8 arm-chairs.
1 looking-glass.
1 clock.
1 table and cover.
4 pictures.
1 small round table.
1 book-case.
1 checker-board.
2 rugs.
1 floor-mat.

BED-ROOM.

1 carpet.
11 iron bedsteads.
14 spittoons.
10 chairs.
25 pillow-slips.
25 sheets.
80 blankets.
10 towels.
20 white spreads.
20 old mattresses.
15 old spreads.
12 feather pillows.
2 extra iron bedsteads.
1 alarm gong.
1 stair-carpet.
1 feather duster.
1 dust-pan and brush.
1 coal-hod.
1 soap-dish.
1 old stair-carpet.
1 pop-head brush.
1 looking-glass.
1 door-mat.

ENGINE-ROOM.

1 second-class Clapp & Jones fire-engine, complete.
2 lamps,
2 monkey-wrenches.
1 jack.
3 oil-cans.
6 assorted files.
1 chisel.
1 shovel.
1 poker.
1 old vise.
2 gallons machine oil.
1 gum bucket.
2 old spittoons.
50 feet garden-hose.
1 clock.

ADJOINING ROOM.

8 arm-chairs.
1 looking-glass.
4 pictures.
3 mats.
1 telephone.
3 window-shades.
1 oil-cloth.
1 water-cooler and stand.
1 table.
3 old spittoons.
1 stove and pipes.
1 comb and brush.

HOSE DEPARTMENT.

1 hose-carriage, complete.
3,000 feet of good canvas hose.
300 feet of bad hose.
200 feet of life-line.
100 feet of picket-line.
1 compound hose-pipe.
2 Johnson pumps.
1 smoke cap.
1 gum bucket.
1 reflector.
1 old whip.

HOSTLER'S DEPARTMENT.

4 horses in fair condition.
4 sets harness.
4 sets of swinging harness.
1 breast collar.
2 sets reins, extra.
4 extra collars.
2 pitchforks.
1 shovel.
2 old brooms.
1 pair clippers.
1 pair scissors.
2 old combs.

1 cutting-box.
20 bushels oats.
300 pounds hay.
200 pounds straw.
1 mane brush.
4 horse-blankets.
2 wooden buckets.

STORE-HOUSE.

½ gross matches.
12 sheets emery cloth.
12 sheets of crocus cloth.
3 pounds sponge.
5 pounds cotton waste.
2 curry-combs.
2 horse-brushes.
6 corn brooms.
1 mop.
1 new pitchfork.
1 shovel.
6 chamois.
1 oil-can.
1 dozen hame-straps.
12 papers of tripoli.
5 yards of red flannel.
25 pounds of brown soap.
5 pounds castile soap.
½ gallon arnica.
3 extra lamps.
1 gallon hard-oil finish.
5 pounds acid.
3 tin cups.
8 old play-pipes.
6 spanners.
2 pounds whiting.
1 mane-brush.
6 papers carpet-tacks.
3 papers of lampblack.
6 papers of stove-polish.
3 Jones reducers.
1 whitewash brush.
1 hand-saw.
3 rings packing.

Members of No. 1 Engine Company.

Name.	Age.	Occupation.	Residences.
Joseph Parris	44	Plasterer	1908 N street.
James Moriarty	40	Machinist	2013 K street.
William B. Read	36	Plumber	Twenty-third street, bet. G and H.
James T. Norris	36	Laborer	1014 Sixteenth street.
James F. Edwards	46	Carpenter	1606 Sixteenth street.
William French	36	Laborer	1008 Twentieth street.
Herod Osborn	29	Laborer	1008 Sixteenth street.
J. F. Adams	29	Clerk	1018 Twenty-second street.
J. O. Guy	31	Carpenter	744 Seventh street s. e.
William Ellis	26	Laborer	249 Fayette street, Georgetown.

MISCELLANEOUS.

1 old bucket.
1 old hose-oiler.
½ barrel plaster paris.
1 barrel cement.
1 barrel slack lime.
9 old nozzles.
1 wheelbarrow.
300 feet white pine lumber.
4 old hose-carriage wheels.
10 tons stove coal.
5 tons splint coal.
3 tons heater coal.
1½ cord wood.
1 ladder, 16 feet long.
1 step-ladder.
½ gallon castor oil.
1 gallon coal oil.

WASHINGTON, D. C., 1880.

SIR: I most respectfully submit the following list of property of No. 2 Engine Company:

Inventory of stock and fixtures of Engine Company No. 2 up to August, 1880.

One two-story brick house, with hose tower attached, located on D street, near Twelfth street, northwest.

ENGINE DEPARTMENT.

1 Clapp & Jones double-pump engine.
1 Gould heater attached to engine.
1 Pruentz relief-valve attached to engine.
1 spring-bottom oiler.
2 spanners.
2 monkey-wrenches.
1 screw S wrench.

2 socket-wrenches.
1 five-gallon oil-can.
1 five-gallon coal-oil can.
2 gallons of machine-oil.
3 gallons of coal-oil.
1 gallon machine-oil can.
10 sheets of emery cloth.
2 pairs of wire pliers.
1 vise and bench.
1 hammer.
2 cold-chisels.
1 gallon of axle-oil and can.
2 flat files.
2 half-round files.
1 soldering-iron.
1 pair of Kye's pipe-tongs.
1 screw-jack.
1 cord of pine wood.
2 tons of soft coal.
2 pounds of Selden packing.
20 pounds of cotton waste.
5 pounds of whiting.
1 pound of oxalic acid.
6 papers of tripoli.
1 extra engine pole.
2 hand-lanterns for steamer.

HOSE DEPARTMENT.

1 hose carriage in good condition.
2,400 feet of Paragon canvas hose, in good order.
1,500 feet of Acme canvas hose, unfit for service.
2 long-handle axes.
3 short-handle axes.
3 ladder straps.
2 new Jones couplings.
2 old Jones couplings.
2 brass reducers.
1 Y brass connection.
3 gum pipes.
1 brass pipe, leather covered.
6 nozzles.
2 spray nozzles.
1 Pruentz patent cut-off nozzle
4 brass pipes.
1 pair of carriage shafts.
2 Johnson pumps.
2 smoke respirators.
4 hand-lanterns, two of them old.
1 reflecting-lantern.
100 feet of picket line.
100 feet of cotton life-line.
2 gum buckets.
1 extra carriage-pole.
1 carriage-jack.
2 extra carriage-wheels.
2 pipe-holders.

HOSTLER'S DEPARTMENT.

4 bay horses, 2 of them unfit for service.
2 sets of swinging harness, in goodorder.
2 sets of double harness, in fair condition.
4 extra bits.
3 old collars.
1 Dutch collar.
4 extra traces.
8 halter-stems.
2 pad riding-saddles, one of them very old.
1 new clipping-machine.
1 old clipping-machine.
2 currycombs.
2 corn-brushes.
2 hair-brushes.
2 whips.
1 old bridle.
1 harness-punch.
4 old collar-pads.
2 sets of pole straps.
2 old sets of breast-straps.
40 bushels of oats.
900 pounds of straw.
800 pounds of hay.
6 bushels of mixed feed.
1 peck of flax-seed meal.
1 peck of coarse salt.
4 good horse-blankets.
4 old horse-blankets.
1 hay cutting-box.
1 feed-bin.
2 pitchforks.
1 half-peck measure.
2 knee-pads.
8 hitching-straps.
2 dozen assorted snaps.
1 set of lead-bars.
2 water-buckets.
2 surcingles.
2 stable-brooms.
2 shovels.
1 feed-sieve.
4 iron horse-troughs.
4 iron trace-chains.
1 singletree.
4 patent boss springs for traces.
1 horse scraper.
4 summer horse-covers.
4 horse-hoods, new.
4 horse-hoods, old.

HOUSE DEPARTMENT.

12 yards stair-linen.
12 iron bedsteads.
10 hair mattresses.
10 shuck mattresses.
11 feather pillows.
30 bedspreads.
30 blankets.
24 pillow-slips.
24 sheets.
1 dozen towels.
1 sitting-room carpet, new.
1 sleeping-room carpet, old and badly worn.
30 yards of linen crash
12 yards of stair-carpet.
16 stair-rods.
6 gum spittoons.
12 cuspidores, spittoons.

2 clocks.
18 arm-chairs, new.
8 arm-chairs, old.
1 sofa.
2 looking-glasses.
3 stoves and pipes
1 center-table and cover.
7 window-shades.
1 secretary.
2 coal-hods.

MISCELLANEOUS.

25 feet garden-hose, old.
3 extra glass water-gauges.
1 pair of shears.
8 chamois-skins.
1 pound of sponge.
12 pounds of castile soap.
15 bars of brown soap.
3 papers of stove-polish.
1 dozen corn brooms.
1 jack-plane.
3 pounds of nails.
1 backgammon-board.
2 pokers.
2 stove-brushes.
1 water-pot.
1 hair-comb.
2 hair-brushes.
2 wash-stands.
1 Bible.
1 alarm-book.
1 day-book.
1 requisition-book.
Library, containing 80 bound books and 179 unbound.
½ gross matches.
2 scrub-brushes.
3 paint-brushes.
2 whitewash-brushes.
6 lamp-wicks.
1 tin water-boiler.
1 coffee-boiler.
2 tin cups.
1 water-cooler.
1 cross-cut saw.
1 hatchet.
3 door mats.
1 dozen window-lights.
4 tons of stove-coal.
1 dust-pan.
3 feather dusters.
2 stove shovels.
1 bath-tub.
1 blank roll-book.
1 step-ladder.
1 billiard-table and pool-balls.

List of members of No. 2 Engine Company.

Name.	Age.	Occupation.	Residence.
William A. Shedd, foreman	39	Machinist	311 Fourteenth street, n. w.
Samuel Dawes, engineer	41	Carpenter	614 H street, n. w.
Frank Lewis, fireman	40	Painter	332 C street, n. e.
Samuel Edwards, hostler	34	Blacksmith	1530 Q street, n. w.
Charles Mead, private	39	Carpenter	467 I street, n. w.
Joseph Lenman, private	24	Blacksmith	523 Eleventh street, n. w.
John Maddox, private	42	Wheelwright	912 F street, n. w.
William Belt, private	32	Carpenter	912 F street, n. w.
Frank Wagner, private	37	Butcher	1354 D street, n. w.
William Mahoney, extra private	32	Laborer	149 Fayette street, Georgetown.

Respectfully submitted.

WILLIAM A. SHEDD,
Foreman.

MARTIN CRONIN, Esq.,
Chief Engineer District of Columbia Fire Department.

Inventory of No. 3 Engine Company.

WASHINGTON, *July* 1, 1880.

SIR: I respectfully submit the following inventory of property in charge of Engine Company No. 3.

This company occupies a two-story brick house on Delaware avenue, near C street northeast, with bell-tower, large bell, and the necessary striking apparatus atttached.

ENGINEER'S DEPARTMENT.

1 second-class U-tank Amoskeag engine with Prunty's patent relief-value attached.
1 Owens' patent coupling.
5 packing wrenches.
3 monkey-wrenches.

1 small stencle-wrench.
3 small squirt-cans.
1 shovel.
3 lamps.
2 oil-feeders.
4 files.
1 pair extension-tongs.
1 jack-screw.
1 feather-duster.
2 chamois-skins.
1 piece sponge.
10 pounds cotton waste.
1 large S wrench.
2 large spanners.
2 pounds tallow.
1 flue-brush.
2 small benches.
24 feet suction-hose.
2 small benches.
2 brass pipes and nozzles.

FIREMAN'S DEPARTMENT.

1 engine-heater, Walton Bros. pattern, with necessary pipes attached.
1 ton heater coal.
1 ton splint coal.
2 tons stove coal.
½ cord sawed and split wood.
1 coal hod.
1 fuel basket.
2 shovels.
1 small axe.
1 broom.
1 dust pan.

HOSTLER'S DEPARTMENT.

4 horses
2 sets double harness, good.
1 set double harnness, unserviceable.
2 pad saddles.
2 extra pair double lines.
2 extra bridles.
2 brushes and curry-combs.
1 shovel and 1 broom.
2 pieces sponge and 2 pieces soap.
1 pitchfork.
1 pair clippers, good; 2 pair worthless.
1 horse syringe.
1 harness punch.
4 horse-blankets, 3 surcingles.
2 whips.
4 old collars.
1 wheelbarrow.
3 feed-bins.
10 bushels oats, 600 pounds hay.
400 pounds straw, ¼ bushel salt.
¼ bushel flaxseed.

HOSE-CARRIAGE DEPARTMENT.

1 two-horse hose-carriage.
1 Nealy respirator.
200 feet life-line.
100 feet hose-line.
1 hose apron.
1 bell and yoke.
3 Johnson pumps.
2 gum pipes and relief-nozzle.
4 extra nozzles.
1 fire-axe.
2 lamps.
1 ladder-strap.
2 hose-clamps.
1 jack-screw and wrench.

HOSE.

1,000 feet Paragon seamless cotton hose, new.
1,900 feet 2-ply Acme cotton hose, old.
2,300 feet cotton hose, worthless.
400 feet leather hose, worthless.

BUNK ROOM.

10 iron bedsteads.
20 mattresses.
26 white double blankets.
10 gum spittoons.
10 hair pillows.
36 sheets, 36 pillow slips.
10 white bedspreads.
10 arm-chairs.
1 large Brussels carpet.
1 round center-table.
10 bed springs.

FOREMAN'S ROOM.

1 iron bedstead.
1 bed-spring.
2 feather pillows.
1 white bedspread.
1 office-desk.
1 office-chair.
2 fancy chairs.
1 Brussels carpet
1 rug.
1 center-table.

SITTING ROOM.

1 large carpet.
2 large carpet-rugs.
2 center-tables.
6 arm-chairs.

STORE ROOM.

2 dozen snap hooks of different patterns.
5 pounds castile soap.
5 pounds brown soap.
3 pounds washing-soda.
2 dust-pans.
3 old nozzles.
2 Jones couplings.
3 fire hatchets.
1 washer cutter.
2 horse-brushes.
1 gong.
1 steam gauge.
½ dozen hose-spanners.
3 carpenter's planes.
1 carpenter's hatchet.
1 carpenter's saw.
1 carpenter's chisel.
½ pound copper wire.
½ dozen papers tripoli.
1 pound acid.
2 pounds sponge.
2 chamois-skins.
3 scrub-brushes.
1 pound copper rivets and burs.
100 feet hose-line.
1 dust-brush.
1 feather duster.
2 wall-sweeps.

Names.	Rank.	Age.	Occupation.	Residence.
Samuel D. Mackey...	Foreman	36	Clerk	313 I street, n. w.
Frank Lewis	Engineer	42	Painter	232 C street, n. e.
Walter Cox	Fireman	34	Carpenter	214 Delaware avenue, n. e.
Michael Kane	Hostler	40	Driver	317 B street, n. e.
James Frazier	Private	41	Mariner	809 East Capitol street.
William Kirkpatrick.	....do	34	Carpenter	51 D street, n. e.
Samuel Nelson	....do	23	Carpenter	504 E street, s. e.
James Nolan	....do	29	Plasterer	712 C street, n. e.
R. T. Williams.....	....do	24	Bricklayer.....	330 Seventh street, s. w.
T. R. Williams.....	....do	24	Bricklayer.....	1716 Seventh street, n. w.
Robert A. La Bille...	Disabled	35	Laborer	14 Myrtle street.
James Lowe	Watchman	52	Carpenter	150 F street, n. e.

Respectfully submitted.

SAML. D. MACKEY,
Foreman Engine Company No. 3.

MARTIN CRONIN,
Chief Engineer District of Columbia Fire Department.

Inventory of No. 4 Engine Company.

WASHINGTON, D. C., *June* 30, 1880.

SIR: I most respectfully submit the following list of property of No. 4 Engine Company from July 1, 1879, to June 30, 1880:

One two-story brick house, located on Virginia avenue, between Four-and-a-half and Sixth streets, southwest, with stable and hose-tower attached.

ENGINEER'S DEPARTMENT.

1 third-class Silsby engine.
1 Gould heater.
1 goose-neck.
2 blind caps.
1 extra pole.
3 files.
1 hammer.
1 brace.
1 extra wrench.
1 pair pliers.
1 five-gallon oil-can.
1 three-gallon oil-can.
1 half-gallon oil-can.
7 spanner-wrenches.
1 socket-wrench.
3 monkey-wrenches.
2 pole-snaps.
3 oil-cans.

1 reducer.
1 ten-gallon oil-can.
1 pipe-wrench.
2 slip-joints.
1 shovel.
1 slice-bar.
1 relief-valve.
1 bench-vise.
2 pole-straps.
1 washer-cutter.
1 wood-ax.
1 whip.
1 rule.
1 set stocks and dies.
1 pipe-cutter.
1 pipe-vise.
1 flue-brush.
4 play-pipes.

HOSTLER'S DEPARTMENT.

4 horses in good order.
4 sets double harness.
4 head-stalls.
4 traces.
1 saddle.
3 mane-brushes.
8 blankets.
4 horse-hoods.
4 gum covers.
3 curry-combs.
3 horse-brushes.
1 overdraw.
5 collar-pads.
4 hand-picks.
1 pint neatsfoot oil.
2 sponges.
1 bar castile soap.
2 pitchforks.
6 pole-snaps.
1 sieve.
1 carriage.
8 Bullwinkle snaps.
6 figure-8 rings.
1 small snap.
8 pole-straps.
2 pairs clippers.
4 hame-straps.
6 bits.
5 extra collars.
1 harness-punch.
4 halter-stems.
5 brow-bands.
4 linen covers.
1 feather duster.
½ bushel flaxseed meal.
½ bushel rock salt.
1 half-peck measure.
1 broom.
500 pounds hay.
500 pounds straw.
4 hitching-straps.

HOSE DEPARTMENT.

1 hose-carriage.
2,900 feet cotton hose.
350 feet in bad order.
250 feet leather hose, in bad order.
2 branch-pipes.
4 nozzles.
1 relief-nozzle.
1 pipe-holder.
1 pair shafts.
2 jack-screws.
2 Johnson's pumps.
4 figure-8 rings.
1 gooseneck.
12 spanners.
1 spray nozzle.
1 pair sleeve breeches.
1 carriage whip.
100 feet street line.
100 feet life-line.
1 reducer.
4 fire-axes.
1 gum bucket.
4 half-traces.
2 pole-straps.
2 carriage-lamps.
5 ladder-straps.
2 pole-snaps.
4 extra half-traces.
1 carriage-apron.
1 Nealey's respirator.

FURNITURE AND BEDDING.

12 iron bedsteads.
22 mattresses.
30 bed sheets.
25 pillow-cases.
34 blankets.
28 chairs.
18 spittoons.
2 time-clocks.
3 stoves and pipes.
3 looking-glasses.
1 dust-pan.
1 writing-desk.
2 new carpets.
3 oil rugs.
6 pieces oil-cloth.
1 stair-carpet.
18 stair-pads.
10 window-shades.
1 table-cover.
3 coal-hods.
1 inkstand.
1 table.
13 yards oil-cloth.
50 yards carpet crash.
3 floor-mops.
1 watering-pot.
2 hair-combs.
2 hair-brushes.
1 alarm-gong.
1 washstand.

2 dust-brushes.
1 wall-brush.
2 door-mats.
3 feather dusters.
1 bath-tub.
1 wisp-broom.
1 water-cooler.
1 frame of rules.
1 piece zinc.
4 pictures.
6 gas globes.
1 waste-basket.

STORES ON HAND.

15 pounds cotton waste.
3 chamois skins.
$\frac{1}{8}$ gallon castor oil.
$\frac{1}{4}$ gallon sweet spirits niter.
18 papers tripoli.
$1\frac{1}{2}$ bars castile soap.
$\frac{1}{2}$ gross screws.
2 ladder-straps.
2 pairs strap-hinges.
6 paint-brushes.
2 planes.
1 adze.
1 elbow pipe.
$\frac{1}{8}$ gallon Japan drier.
6 new hose-couplings.
4 springs.
2 whitewash-brushes.
$\frac{1}{8}$ gallon turpentine.
$\frac{1}{2}$ gallon copal varnish.
48 boxes matches.
3 pounds putty.
2 papers tacks.
1 sheet zinc.
3 chair-bottoms.
1 dust-brush.
1 shovel.
20 pounds axle-grease.
25 pounds white lead.
1 hand-saw.
1 copper boiler.

EXTRA APPARATUS.

1 4-wheel fuel-wagon, new.
1 2-wheel fuel-cart, in bad order.
1 old truck, in bad order.
4 old Amoskeag wheels.
2 old Silsby wheels.

List of members No. 4 Engine Company.

Name.	Age.	Occupation.	Residence.
William T. Sorrell	45	Mariner	412 Twelfth street, s. w.
Levi Moling	36	Blacksmith	486 G street, s. w.
Francis Donnelly	37	Pattern maker	309 D street, s. w.
John Waldron	33	Laborer	405 Four-and-a-half street, s. w.
F. H. Myers	38	Carpenter	1218 Union street, s. w.
William Ricks	29	Engineer	718 Sixth street, s. w.
William White	38	Brickmaker	124 Willow Tree alley, s. w.
Thomas J. Coffey	25	Laborer	306 C street, s. w.
James Creamer	25	do	610 Maryland avenue, s. w.
Robert Dickson	27	do	H between Fourth and Fifth streets, n. w.

Respectfully submitted.

WM. T. SORRELL,
Foreman No. 4 Engine Company.

MARTIN CRONIN, Esq.,
Chief Engineer District of Columbia Fire Department.

Inventory of No. 5 Engine Company.

QUARTERS ENGINE COMPANY NO. 5,
August 19, 1880.

SIR: I most respectfully submit the following inventory of property of No. 5 Engine Company for the year ending June 30, 1880.

One two-story brick house in a very bad condition, with large bell and hose-tower attached.

ENGINEER'S DEPARTMENT.

1 double-pump second-class Amoskeag engine, complete.
1 Bashor coil heater.
4 extra heater cocks.
1 Pruntyes relief-valve.
4 extra wheels.
1 screw-jack.
7 small files.
3 squirt-cans.
2 machine-oil cans.
2 gallons machine oil.
8 large files.
3 shovels.
1 slice-bar.
1 tube scraper.
2 tube brushes.
1 reducer.
1 plug thawer.
1 old spring clamp.
1 lead rope.
1 brass plug.
6 tube irons.
4 air-chamber spanners.
1 small cut-off valve.
1 feather duster.
1 vise and bench.
30 feet rope.
13 wrenches.
2 lanterns.
4 monkey-wrenches.
4 leather half traces and snaps.
1 extra pole.
2 extra grate-bars.
1 grate pattern.
6 glass water-gauges.
1 pint castor oil.
7 balls lamp wick.
3 balls Selden's packing.
15 pounds cotton waste.
2 pounds gum packing.
1 cord of wood.
3 tons splint coal.
1 ton heater coal.
3 seat-cushions.
2 brass pipes and nozzles.
2 clocks; 2 gongs.
1 leather gong strap.
1 extra steam-gauge.
1 register-gauge.
1 plug key.
1 hand-ax.
5 pounds tallow.
4 extra axle nuts.
3 gallons coal oil.
1 gum bucket.
2 coal-oil cans.
1 small brass nozzle.

HOSE DEPARTMENT.

1 4-wheel hose-carriage, with 1,350 feet cotton rubber-lined hose.
2,100 feet extra hose.
750 feet of hose, in bad condition.
2 hose-coupling machines.
2 gum pipes and nozzles.
10 sets Work's couplings.
3 leather pipes and nozzles.
8 Morse coupling rings.
1 cut-off nozzle.
2 spray nozzles.
1 metal pipe holder.
1 well-wheel for tower.
25 wooden pegs.
4 ladder straps.
1 large nut wrench.
1 leather gooseneck.
1 feather duster.
1 extra spring.
2 jacks.
2 lanterns.
1 reflector lamp.
1 plug wrench.
7 plug keys.
2 Johnson force pumps.
1 reducer.
1 gum bucket.
1 pair shafts.
1 extra pole.
2 swingle-trees.
4 leather half traces and snaps.
50 feet rope for tower.
1 fire ax and holder.
2 sets Jones hose couplings.
2 gums for Jones couplings.
2 pipe-racks.
1 hose-tap.
1 seat cushion.
5 spanners.
5 hose-patches.
3 spool-straps.
2 fenders for tower.
3 extra brake blocks.
2 smoke caps.
1 smoke-cap box.
300 feet cotton rope.
100 feet manila rope.
3 small pick-axes.
3 scabbards and belts.
2 leather pipe-holders.
1 bucket.

HOUSE DEPARTMENT.

Schneider's improvement for releasing horses from their stalls.
1 fire-alarm gong.
10 iron bedsteads.
10 shuck mattresses.
39 pair white blankets.
29 pillow slips.
1 Morse key and sounder.
10 compensation bed springs.
11 feather pillows.
1 white single blanket.
20 towels.
1 Edison telephone.
10 hair mattresses.
9 hair pillows.
49 sheets.

32 bed spreads.
17 spittoons.
2 stair-carpets.
7 floor-mats.
1 writing-desk.
3 hair-combs.
160 bound books.
3 buckets.
4 stove-brushes.
3 tin cups.
1 bucket for coffee.
1 feather duster.
1 copper boiler.
1 hatchet.
3 blank books.
4 self-lighting gas burners.
1 regulation book.
2 squirt-cans.
1 paper-cutter.
3 fire-alarm keys.
6 floor-mops.
60 feet street-hose and pipe.
2 door ropes, hooks, and ring.
2 pair gas tongues.
2 figure 5 dies.
1 wash-stand.
16 chairs.
1 stair oil-cloth.
1 clock.
16 window shades and fastenings.
3 hair-brushes.
12 lockers.
2 stoves and pipe.
2 small shovels.
1 coffee pot.
4 pounds of sugar.
2 hair dusters.
1 whisk-broom.
3 step-ladders.
1 Worcester's Dictionary.
1 District fire-alarm card.
4½ tons hard coal.
1 bottle ink.
6 scrubbing-brushes.
2 inside keys.
4 floor mop handles.
2 whitewash-brushes.
2 pair wire pliers.
1 bottle mucilage.
1 picture fire engineers.
1 urinal.
1 bath-room oil-cloth.
16 brass stair-rods.
1 table.
1 looking-glass.
2 book-cases.
1 water-cooler and stand.
4 coal-hods.
1 large shovel.
1 bucket for sugar.
2 pounds coffee.
1 washer cutter.
1 hand-saw.
3 company books.
10 bound rules and regulations.
1 rules and regulations card.
1 piece of zinc.
1 pair scissors.
2 benches.
1 master key.
1 sprinkling can.
1 dust-pan.
1 grindstone.
3 ceiling hooks.
1 bath-tub.
1 water-closet.

HOSTLER'S DEPARTMENT.

2 sets of double harness, complete, with champion swinging hames and attachment.
2 sets double harness, extra.
4 horse blankets.
4 horse hoods.
2 buckets.
2 horse scrapers.
1 pair extra lines.
4 brass pole-snaps.
1 old wagon.
2 pad saddles.
10 halter stems.
4 cans harness oil.
100 feet rope.
1 whip thong.
1 mane and tail card.
2 extra collar pads.
1 mix-feed box.
1 pint turpentine.
1 pint oil of origanum.
4 horses.
20 Bullwinkle snaps.
1 clipping-machine.
4 curry-combs.
3 pitchforks.
1 peck measure.
4 figure-8 rings.
2 shovels.
4 extra bridles.
1 halter-chain.
1 head halter.
1 harness punch.
1 pair clipping shears.
4 linen horse covers.
2 mane combs.
1 sifter.
½ pint oil of spike.
1 peck salt.
1 Dutch collar and pads.
24 buckle covers.
2 sets hand-holds.
4 horse brushes.
4 surcingles.
2 horse boots.
1 watering-trough.
2 stable brooms.
1 extra bit.
4 hitching straps.
1 single and 1 double block.
4 whips.
1 clipping comb.
8 hame-straps.
2 feed-bins.
1 wheelbarrow.
1 quart arnica.
½ pint sweet spirits of niter.

FORAGE.

40 bushels oats.
½ peck flax-seed meal.
300 pounds hay.
1 bushel bran.
400 pounds straw.

STORE-HOUSE DEPARTMENT.

12 papers eagle tripoli.
1 pound stove-polish.
13 lamp-wicks.
24 sheets crocus cloth.
2 boxes axle-grease.
5 boxes copper rivets.
¼ pound camphor.
6 panes glass.
12 lamp burners.
6 chamois.
1 gallon raw oil.
6 pounds castile soap.
5 pounds oxalic acid.
5 pounds nails.
10 sheets emery cloth.
8 lamp globes.
10 snap-hooks.
5 boxes roach-powder.
5 pounds sponge.
2 pounds brown soap.
½ pint turpentine.
1 feather duster.
3 pounds rotten stone.
5 pounds whiting.
6 papers tacks.
8 boxes matches.
2 extra lanterns.
1 pound copper wire.
1 bushel lime.
2 papers sapolio.
4 corn brooms.
½ gallon boiled oil.

ASSISTANT CHIEF ENGINEER'S DEPARTMENT.

1 carriage.
4 extra wheels.
1 reflector lamp.
2 lap robes.
1 whip.
1 extra bit.
1 horse.
1 lamp and globe.
3 sets single harness.
1 extra bridle.
2 extra breeching straps.
1 gum bit.
2 extra pair shafts.
1 lamp-rack.
1 gum horse cover.
2 horse boots.
1 linen horse cover.
1 horse blanket.

List of members of Engine Company No. 5.

Name.	Rank.	Age.	Occupation.	Residence.
L. P. Lowe	Foreman	30	Clerk	2908 Olive avenue.
Edward Rhodes	Engineer	41	Engineer	23 Second street.
J. D. Angle	Fireman	32	....do	31 Congress street.
J. H. Mahorney	Hostler	38	Carpenter	14 Third street.
James Cleveland	Private	37	Shoemaker	168 Bridge street.
Churchill Huitt	....do	32	Laborer	1918 New York avenue.
F. J. Snyder	....do	36	....do	25 Grace street.
A. J. Sullivan	....do	29	Blacksmith	62 Prospect street.
J. W. Kurtz	....do	27	Carpenter	106 Valley street.
J. T. Greaves	....do	32	Engineer.	2904 Olive avenue.

Respectfully submitted.

LOUIS P. LOWE,
Foreman No. 5 Engine Company.

MARTIN CRONIN,
Chief Engineer, District of Columbia Fire Department.

Inventory of No. 6 Engine Company.

WASHINGTON, D. C., *August* 18, 1880.

SIR: I most respectfully submit the following list of property of No. 6. Engine Company, up to July 1, 1880.

This company occupies a two-story brick house, located on Massachusetts avenue, between Fourth and Fifth streets northwest.

ENGINEER'S DEPARTMENT.

1 Clapp & Jones engine, in good condition.
1 Prunty relief-valve.
1 Walton Bros. engine-heater.
1 gong.
1 gum suction, 8 feet long.
1 cotton suction, 15 feet long.
2 signal lamps.
2 lamps.
1 head-light.
1 squirt-can.
1 small monkey-wrench.
2 spanners.
1 hammer.
2 packing-box wrenches
1 slice-bar.
1 shovel.
1 pair slip-joints.
2 ¾-inch stop-cocks.
4 brass pipes.
1 gum bucket.
16 feet small garden-hose.
1 gooseneck.
4 extra nozzles.
1 large monkey-wrench.
1 screw-jack.
1 coupling expander..
2 pound sheet gum.
1 feather duster.
1 extra steam-gauge, old.
1 water-gauge, old.
10 pump-valves, old.
1 half-gallon oil-can
½ gallon castor-oil.
2 coils Selden's packing.
15 pounds waste.
2 pounds oxalic acid.
12 papers tripoli.
10 pounds whiting.
5 gallons coal-oil.
½ gallon machine-oil.
12 sheets emery cloth.
1 oil stone.
2 chamois skins.
6 extra engine-tubes.
1 tube wrench.
1 extra singletree.
2½ tons engine coal.
2 files, old.
¼ cord pine wood.
1 ton heater coal.
1 5-gallon can.
1 2-gallon can.
2 heater-cocks, old.
1 extra engine-wheel.
2 suction clamps.
5 balls lamp-wick.
12 lamp-wicks.
1 reducer.
2 ¾-inch stop-cocks, old.
2 slip-joints, old.
1 vise.
1 engine clock.
1 hammer.

HOSTLER'S DEPARTMENT.

5 horses, in good condition.
3 sets double harness, good.
2 sets single harness.
30 bushels oats.
450 pounds hay.
450 pounds straw.
4 bushels mill feed.
1½ pecks flax-seed meal.
½ peck salt.
3 pitchforks.
2 scoop-shovels.
3 currycombs.
3 horse-brushes.
2 mane-brushes.
18 snap-hooks.
6 hame-straps.
2 clipping-machines, old.
1 pair shears.
2 horse-scrapers.
4 hitching-straps.
1 quart pine-tar.
½ gallon arnica.
2 exercising saddles.
5 horse-blankets.
6 horse-hoods.
1 gum-blanket.
3 lap-robes.
3 whips.
1 block and fall.
2 cans harness-oil.
1 riding-saddle.
2 horse-buckets.
1 broom.
1 lot straps, old.
4 halter stems.
1 lot harness, old.
2 feed-bins, old.
1 harness-punch.

HOSE DEPARTMENT.

1 hose carriage.
57 sections cotton hose, in good condition.
4 gum-pipes.
12 nozzles.
1 spray nozzle.
1 gum bucket.
1 life-line.
1 Johnson pump.
6 spanners.
2 canvas aprons.
2 reducers.
2 axes.
1 bucket of axle-grease.
2 Jones couplings.
2 Siamese connections.
1 street rope.
2 hose-leak stoppers.
6 plug-keys.
5 ladder-straps.
1 screw-jack.
1 wooden jack.
1 monkey-wrench.
2 extra singletrees.
2 Johnson pumps, old.
2 extra lamp-irons.
2 leather pipes, old.
2 lamps.
50 feet garden hose.

HOUSE DEPARTMENT.

9 chairs, worthless.
18 spittoons.
2 clocks.
2 stoves.
4 1-light gas fixtures.
7 double-swing brackets.
1 2-light fixture.
1 4-light chandelier.
2 12-light chandeliers.
1 Morse key and sounder.
1 telephone.
1 battery-box.
1 set rules.
3 door-mats.
30 yards linen crash.
15 yards stair-carpet.
19 stair-rods.
2 feather dusters, old.
36 gas-fixture globes.
1 bed-room carpet.
2 front-room carpets.
1 sitting-room carpet.
6 rugs.
10 yards oil-cloth.
1 wash-stand.
1 bath-tub.
1 urinal.
2 water-closets.
1 whisk broom.
2 combs and brushes.
2 looking-glasses.
6 oak chairs.
1 large walnut table.
1 center-table.
10 curtains.
1 table cover.
2 inkstands.
1 desk.
1 carpet-cover.
24 mattresses.
30 bed-spreads.
13 feather pillows.
18 walnut cane-seat chairs.
2 sets lace curtains.
1 gong.
12 iron bedsteads.
1 walnut bedstead.
1 walnut wardrobe.
1 lounge.
1 walnut bookcase.
4 pieces zinc.
1 office chair.
1 picture chief fire engineers United States.
58 sheets, good.
10 sheets, old.
25 pillow-slips, good.
6 pillow-slips, old.
36 double blankets.
14 towels.
1 dust-pan.
1 dust-brush.
1 wall-brush.
2 step-ladders.

STOREHOUSE DEPARTMENT.

20 pounds castile soap.
10 pounds brown soap.
2 pounds sponge.
6 chamois-skins.
3 mops.
4 mop handles.
6 papers tacks.
2 scrubbing-brushes.
1 dust-brush.
1 wall-brush.
2 pounds copper rivets.
6 brooms.
1 pound copper wire.

MISCELLANEOUS.

1 wagon-pole.
1 lot rope.
2 shovels.
1 lot garden-hose, old.
1 lot oil-cans, old.
1 watering-pot.
1 lot old iron bolts.
1 lot leather, old.
1 lot old cocoa-matting.
1 lot old oil-cloth.
1 old gooseneck.
1 lot hoop-iron.
8 lamp-globes.
1 extra ax-handle.
1 lot old brass.
1 lot old copper rivets.

1 pane glass.
1 lot straps, old.
6 hose couplings.
1 pair T-hinges.
1 crowbar.
1 old buffalo robe.
4 surcingles.
2 hay-hooks.
2 seives.
2 coal-hods.

List of members of Engine Company No. 6.

Names.	Age.	Occupation.	Residence.
Charles E. Merrillat, foreman	34	Plumber	740 Fourth street, n. w.
Thomas Martin, engineer	41	Blacksmith	475 I street, n. w.
Henry F. Steele, fireman	31	Blacksmith	108 Fourth street, n. e.
Alexander Savoy, hostler	37	Barber	218 G street, n. w.
Levi Moling, private	37	Blacksmith	491 G street, s. w.
John Brosnan, private	27	Paver	110 L street, n. w.
Lawrence Grant, private	26	Bricklayer	703 Fourth street, n. w.
Patrick Carroll, private	31	Blacksmith	732 Fourth street, n. w.
William Ennis, private	30	Laborer	53 I street, n. w.
Howard Wright, private	29	Carpenter	411 New York avenue.
William Roche, private	31	Bricklayer	110 L street, n. w.

Respectfully submitted.

CHAS. E. MERILLAT,
Foreman No. 6 Company.

MARTIN CRONIN, Esq.,
Chief Engineer District of Columbia Fire Department.

Inventory of Truck Company A.

WASHINGTON, *August* 20, 1880.

SIR: Please find inclosed inventory of stock fixtures, &c., of Truck Company A for the year ending June 30, 1880.

Respectfully, yours,

C. CLARK, *Foreman.*

MARTIN CRONIN, Esq.,
Chief Engineer.

1 2-story brick house, stables, and brick addition.
1 Buckley & Merritt's 4-spring truck in good order.
1 65-foot extension ladder and lever attached, with poles, stays, halyards, and platform complete.
1 41-foot ladder.
1 36-foot ladder.
2 30-foot ladder.
1 24-foot ladder.
1 20-foot ladder.
1 16-foot ladder.
1 12-foot ladder.
9 hooks.
5 hose-hooks.
1 gong.
1 hammer.
3 75-foot life lines.
3 forks.
1 battering-ram.
1 spade.
4 lamps.
2 side reflectors.
1 hand reflector.
6 axes.
2 smoke-respirators.
1 crow-bar.
1 pipe-holder.
1 gas wrench.
4 gum buckets.
1 6-inch grab-hook.
3 Johnson pumps.
2 monkey-wrenches.
1 auger.
1 pair pliers.

HOSTLER'S DEPARTMENT.

3 horses.
1 double set swinging harness.
1 set double harness.
1 saddle.
6 blankets.
2 pairs clippers.
1 pair shears.
1 punch.
2 old bridles.
2 curry-combs and brushes.
2 mane-brushes.
2 figure-8 rings.

4 halter-straps.
2 Bulwinkle snaps.
4 hitching-straps.
2 chamois-skins.
2 buckets.
1 whip.
2 forks.
2 shovels.

ENGINE DEPARTMENT, EXTRA.

1 second-class Amoskeag engine.
1 lamp.
1 oil-can.
1 monkey-wrench.
6 assorted wrenches.
1 shovel.
1 slash-bar.
2 fenders.
1 hose-carriage.

SITTING-ROOM.

1 carpet.
8 arm-chairs.
1 clock.
1 water-cooler.
1 stove and pipe.
1 telephone.
1 stair-carpet.
1 stair oil-cloth with rods.
6 spittoons.
1 oil-cloth on passage.

SLEEPING APARTMENTS AND BATH-ROOM.

24 chairs.
12 iron bedsteads.
12 mattresses.
12 hair pillows.
12 feather pillows.
8 lace curtains.
9 blue linen curtains.
1 lounge.
2 arm-chairs.
1 book-case.
2 stoves.
1 clock.
20 white spreads.
24 sheets.
29 pillow-slips.
12 towels.
44 blankets.
2 carpets.
1 oil-cloth in bath-room.
1 writing-desk.
1 alarm-gong.
12 spittoons.
1 brush and comb.
1 soap-dish.
1 step-ladder.
1 gum bucket.
2 scrub-brushes.
2 looking-glasses.
1 inkstand.
17 globes.
1 scrap-basket.
1 table and cover.
1 report-book.
1 day-book.
12 patent bed-springs.

MISCELLANEOUS.

3 extra engine wheels.
5 pieces rope.
2 coal-hods.
2 shovels.
3 wooden buckets.
1 gum bucket.
1 pipe-holder.
3 mops.
1 whitewash brush.
2 coal-oil cans.
1 wheelbarrow.
1 watering-pot.
2 extra picks.
5 door-mats.
3 oak boards.
30 feet old sprinkling hose.
1 jack-plane.
1 smoothing-plane.
1 hatchet.
2 files.
3 pairs tongs.
1 jack.
2 hub-wrenches.
1 saw.
3 pounds waste.
½ gallon arnica.
1 can harness-oil.
20 pounds brown soap.
2 oil-cans.
10 papers tripoli.
10 sheets emery cloth.
1 breast-collar.
1 collar.
3 brooms.
1 ton steamer coal.
10 ax-handles.

List of members of Truck Company A.

Names.	Position.	Age.	Occupation.	Residence.
C. Clark	Foreman	41	Laborer	1215 L street, n. w.
D. F. Craven	Tillerman	28	Seaman	229 Tenth street, s. e.
J. O'Leary	Hostler	30	Blacksmith	G between North Capitol and First.
J. Melson	Private	37	Laborer	B street between Third and Fourth, n. e.
Thomas H. Scott	do	30	Carpenter	131 Third street, n. e.
W. A. Luskey	do	30	Laborer	Do.
Thomas R. Newman	do	43	Blacksmith	Third and A street, n. e.
S. R. Henry	do	30	Laborer	22 Second street, n. e.
J. P. Kane	do	30	Plasterer	Second street between A and East Capitol.
R. H. Sweeney	do	27	Grocery clerk	Sixth and South A.
H. D. Heinline	do	31	Laborer	Sixth between A and B.

Inventory of Truck Company B.

WASHINGTON, D. C., *July* 1, 1880.

SIR: I respectfully submit the following list of property in charge of B Truck Company. This company occupies a two-story brick house, in good condition, located on the corner of New Hampshire avenue and M street, northwest.

Respectfully submitted.

GEORGE D. SPILMAN,
Foreman B Truck.

MARTIN CRONIN, Esq.,
Chief Engineer, District of Columbia Fire Department.

SITTING AND SLEEPING ROOMS UPSTAIRS.

1 library book-case.
1 sofa.
1 looking-glass.
10 window-curtains.
12 iron bedsteads.
12 springs.
12 hair mattresses.
12 pillows.
48 double blankets.
48 sheets.
33 pillow-cases.
26 white spreads.
17 towels.
3 carpets.
1 stair-carpet and rods.
24 walnut chairs.
2 chandeliers and 15 globes.
1 large center-table.
2 mats.
1 rug.
1 clock.
1 writing-desk.
8 tin spittoons.
1 large stove.
1 alarm-gong.
1 large center-table and cover.

SITTING-ROOM DOWNSTAIRS AND HALL-WAYS.

1 carpet.
9 oak chairs.
1 center-table.
1 stove.
1 looking-glass.
1 piece zinc.
1 talking-circuit.
6 spittoons.
4 mats.
2 pieces oil-cloth.
1 window-curtain.

TILLERMAN DEPARTMENT.

1 Babcock hook-and-ladder truck, complete and in good order.
1 Bangor extension-ladder, 65 feet long, with lever attached.
1 40-foot Bangor ladder, with lever attached.
8 ladders of different lengths.
4 poles belonging to the Bangor ladders.
1 grapple-hook, with chain attached.
1 battering-ram.
2 gas or water keys.
2 crowbars.
4 Johnson pumps.
1 auger.
1 pair wire-pliers.
1 leather-punch.

1 monkey-wrench.
3 smoke-caps.
4 pitchforks.
4 ladder-straps.
2 street-ropes.
3 life-lines.
4 brooms.
8 small hatchets.
4 pickaxes.
2 plain axes.
4 hand-lanterns.
1 spade.
2 plain shovels.
2 Babcock fire-extinguishers and fire-buckets.
1 platform, Chief Cronin's patent, with turn-table.
1 screw-jack.
3 wrenches.
6 boxes axle grease.
½ gallon castor oil.
4 cotton mops.
6 old fire-buckets.
1 spade.
2 signal-lamps.
2 doz. bolts.
1 pair pliers.
1 hammer.
2 files.
1 old smoke-cap.
6 old lanterns.
1 doz. lamp-wicks.
2 gallons coal oil.
1 new life-line.
10 pounds cotton waste.
1 pair plumber's tongs.
3 chamois skins.
2 pieces sponge.
1 pound plumbago.
1 gas-key.
4 small hatchets.
1 pound copper wire.
5 ax-handles.
1 oil-can.
1 monkey-wrench.
1 screw-driver.
3 springs.
1 canvas bag.
150 feet of rope.
1 iron block.
1 vise.
1 grindstone.
1 old reflecting-lamp.
2 coal-oil cans.
½ pound oxalic acid.
3 sheets emery cloth.
2 pipe-holders.
1 old hose-carriage.
4 old engine-wheels.
2 old ladders.
2 ladder-poles.
1 suction-sleeve.
1 engine-pole.
2 old singletrees.
1 lot of old rope.
7 boxes Charge's fire-extinguishers.
1 old engine-apron.
1 extra engine, in good order.
3 wrenches.
2 fire-irons.
1 shovel and poker.

HOSTLER DEPARTMENT.

2 new horses, 1 old horse.
2 sets of harness, double (1 old, 1 new).
2 halters,
2 sets pole-straps.
2 sets traces.
6 hitching-straps.
2 pair horse-clippers.
1 pair shears.
2 horse-brushes.
2 curry-combs.
1 feather duster.
2 cotton dusters.
1 pair summer spreads.
2 sets winter blankets.
1 pair hoods.
1 extra set reins.
1 pair surcingles.
1 saddle.
1 dozen snaps.
2 extra set pole-snaps.
1 peck salt.
1 peck measure.
2 pitchforks.
1 shovel.
2 horse buckets.
1 feed sieve.
1 pair snips.
1 tin water-pot.
1 broom.
2 sets halter-straps.
1 extra set bridles.
1 mop.
1 trap-hook.
1 iron water-trough.
1 harness-punch.
10 bushels oats.
2 bushels bran.
1 bushel meal.
300 pounds hay.
150 pounds straw.
1 feed-bin.
1 small frame feed-house.

STORES ON HAND.

½ gross matches.
2 hair-brushes.
2 combs.
1½ pint arnica.
10 pounds castile soap.
8 pounds brown soap.
12 papers tripoli.
½ dozen crocus cloth.
½ dozen emery cloth.
2 curry-combs.
2 brushes.
1 dust-pan.
1 brush.
2 stove-brushes.
2 squirt-cans.
1 reducer.
4 pickaxes.
2 wall-picks.

1 gallon lard oil.
4 lamp globes.
3 packages Johnston's kalsomine.
4 spring catches for doors.
4 clothes hooks.
1 monkey-wrench.
1 pane glass.
1 pound burnt umber.
1 pound green paint.
2 saw-sets.
2 lamp-stays.
9 corn brooms.

MISCELLANEOUS ARTICLES.

4 tons stove coal.
3 tons engine coal.
½ cord sawed and split wood.
1 step ladder.
1 water-cooler.
1 copper kettle.
3 dust-pans.
3 dust-brushes.
2 feather dusters.
1 stove-brush.
3 corn brooms.
2 14-inch hair-brushes.
1 large wall-brush.
4 coal-hods.
2 white brushes.
2 paint brushes.
3 buckets.
2 scrubbing-brushes.
2 mops.
1 chamois skin.
2 alarm keys.
1 relief key.
30 sheets tin.
3 pieces zinc.
1 hose-carriage bell.
1 brace.
12 bits, of different sizes.
4 saws, of different sizes.
1 pair tinner's snips.
3 planes.
1 oil-can.
1 trowel.
6 chisels.
1 screw-driver.
3 cold-chisels.
1 hatchet.
2 files.
1 spokeshave.
1 oil-stone.
1 putty knife.
2 pounds nails.
1 pair hinges.
5 quart cups.
1 wheelbarrow.
100 feet hose (bad condition).
1 record book.
1 requisition book.
1 ledger book.
2 stoves, in bad condition.
½ barrel lime.
1 fire-shovel.
1 coal shovel.

List of members Truck B.

Names.	Age.	Occupation.	Residence.
George D. Spilman, foreman..	35	Laborer	830 Twenty-third street, n. w.
John Sherman, tillerman.....	35	....do	1234 Twentieth street, n. w.
Daniel Williams, hostler	39	....do	1212 Twenty-fourth street, n. w.
Charles Boss, private	29	Wood-turner..	1926 K street, n. w.
James Burroughs, private....	30	Tinner.....	1924 K street, n. w.
Edward White, private	24	Carpenter	New Hampshire avenue, between M and N streets.
Thomas Whalen, private.....	31	Laborer	160 High street, Georgetown.
Charles McCarthy, private...	27	Carpenter	915 Fifteenth street, n. w.
William Whitmore, private..	23	Hostler.....	409 Fourteenth street, n. w.
John Maker, private.....	36	Laborer	935 Tenth street, n. w.
John Walker, watchman.....	43	Bricklayer....	Potomac street, Georgetown.

APPENDIX G 3.

REPORT OF THE SUPERINTENDENT OF THE FIRE-ALARM TELEGRAPH.

OFFICE FIRE-ALARM TELEGRAPH,
Washington, D. C., September 1, 1880.

GENTLEMEN: I have the honor to present my annual report for the fiscal year ending June 30, 1880; also estimates of necessary expenditures for the fiscal year ending June 30, 1882, together with suggestions for increasing the efficiency of the service by enlarging the circuits and increasing the signal boxes to meet the wants of the growing city. The fire-telegraph has continued to work in the most satisfactory manner, and is now in good working condition.

The introduction of telephones on all the lines of our talking circuits

has served to promote the efficiency of the entire department, and has become a necessity of the service.

In the matter of repairs during the year past, but little expenditures were necessary, and hence the entire expenditures of the fire-alarm service during the fiscal year ending June 30, 1880, were only $6,082.92.

During the year covered by this report, there were 120 alarms of fire transmitted over the wires of the fire-telegraph; also, 5 general and 6 special alarms.

In July, 1879, there were 5 alarms; August, 1879, 6; September, 1879, 7; October, 1879, 12; November, 1879, 10; December, 1879, 14; January, 1880, 11; February, 1880, 15; March, 1880, 12; April, 1880, 15; May, 1880, 6; June, 1880, 7; total, 120.

To defray the expenses of the fire-telegraph during the fiscal year ending June 30, 1882, it will require a much larger expenditure for repairs than formerly, owing to the advancing age of the lines and general deterioration by constant use of both instruments and lines, all of which will have to be made good by repairs. Provisions should be made for—

Salary for one superintendent	$1,800 00
Salary for three operators, at $1,200 each	3,600 00
Battery supplies and new battery	1,800 00
Labor and repairs	2,500 00
Contingent expenses	300 00
Gas-light	100 00
Fuel	40 00
Ice	30 00
Washing	30 00
Total	10,200 00

To promote the general usefulness of the fire-alarm telegraph, and to increase the efficiency of the same, fire-alarm boxes should be located at or near each of the following-named places, to wit:

First street and Indiana avenue, Third and G streets, First and K streets, Fifth and S streets, Tenth and V streets, Tenth and M streets, Fourteenth street and Rhode Island avenue, Tenth street and Louisiana avenue, Fourteenth street and Ohio avenue, Twelfth and F streets, Tenth and E streets, Fifteenth and S streets, Seventeenth and T streets, Twentieth and P streets, Eighteenth and L streets, Twenty-fourth and M streets, Twenty-fifth and I streets, Virginia avenue and E street, Eighteenth and H streets, and Sixteenth-and-a-half and H streets, all in the northwestern section of the city; also at Maryland avenue, Eighth and D streets, northeast; Second and F streets, northeast; Fifth and B streets, southeast; Fifth street and Virginia avenue, southeast; Elevventh and N streets, southeast; Eighth and G streets, southeast; Thirteenth and E streets, southeast; South Capitol and N streets, south; the Agricultural Department; Twelfth-street wharf; L street between Fourth-and-a-half and Sixth streets, southwest; Abbott School building, southwest; Second and D streets, southwest; and one each for the first, second, fourth, fifth, sixth, seventh, and eighth police precinct stations; making forty additional signal-boxes for Washington; also, seven for Georgetown, to be located as follows: Corner of Green and Gay streets, corner of Congress and Dunbarton streets, corner of Eighth and Market streets, corner Second and Warren streets, corner of Bridge and Frederick streets, corner of Potomac and Water streets, and corner of Monroe and West streets.

Not less than fifty signal-boxes should be put up as soon as possible.

Much valuable property is exposed to the ravages of fire in consequence of being remote from fire-alarm stations, and can be made secure

only by enlarging our circuits and increasing the number of signal-boxes.

The estimated cost of adding fifty signal-boxes, including the extension of the circuits, &c., is $10,000.

It requires no effort on my part, by way of argument, to convince you of the importance of this improvement, and I confidently trust the necessary appropriation will be made by Congress to enable you to carry out the suggestion.

In conclusion, I wish to thank the Commissioners of the District of Columbia; also, the commissioners, officers, and members of the fire department, for their uniform courtesy and co-operation, thus aiding to a great extent in bringing this branch of the service to its present high state of efficiency; my thanks are also due and tendered to Messrs. Richards and Noyes, the operators of this office, for their continued efficient and faithful services since my last report.

All of which is respectfully submitted.

I have the honor to be, gentlemen, your obedient servant,

HENRY R. MILES,

Superintendent Fire-Alarm Telegraph.

The BOARD OF FIRE COMMISSIONERS.

APPENDIX G 4.

REPORT OF FIRES.

No. of fire.	Date.	Hour.		Box.	Style of building.	Cause.	How occupied.	Owner or occupant.	Location.	Damage.	Insurance.
	1879.	*a. m.*	*p. m.*								
1	July 4	.....	12.13	56	Brick	Chimney	Dwelling	J. Peakes	7th and South Carolina avenue, s. e	$200	$200
2	July 8	.....	8.13	123	....do	Gas-jet	....do	E. Anderson	G, between 4th and 5th, n. w	Slight.	.....
3	July 15	.....	12.29	621	....do	Defective flue	....do	H. Gordon	923 9th street, n. e	..do ..	.....
4	July 28	5.54	.....	121	....do	Water lime	Photo-lithography	N. Peters	Pennsylvania avenue, near 4½	200	200
5	July 30	.....	1.10	12	Frame	Incendiary	Stable	W. Bird	C, between 2d and 3d, n. w	300	300
										700	700
1	Aug. 2	2.23	.....	39	Frame	Incendiary	Store	J. Cotter	21st, between P and Q, n. w	1,000	800
2	Aug. 9	.....	6.15	145	Brick	.....do	Dwelling	Mrs. Lindsey	15th, between I and K, n. w	100	100
3	Aug. 12	.....	2.00	25	Frame	Stove-pipe	....do			Slight.	.....
4	Aug. 15	.....	2.20	132	....do	Chimney	Coach-shop	T. Mitchell	14th and Pennsylvania avenue, n. w	..do ...	.....
5	Aug. 22	.....	7.49	124	....do	Unknown	Harness-shop	G. Knessie	7th, between D and E, n. w	200	200
6	Aug. 27	.....	10.08	47	Brick	False alarm				.....	.....
										1,300	1,100
1	Sept. 3	.....	7.10	71	Brick	Spontaneous combustion	Drug-store	G. W. Cropley	Congress and Bridge, Georgetown	700	700
2	Sept. 10	12.37	.....	143	False alarm					.....	.....
3	Sept. 11	9.26	.....	45	5 frames	Stove-pipe	Dwelling	Charles Johnson	Between ½ and 1st and K and L	500	500
4	Sept. 14	1.25	.....	134	Test alarm					.....	.....
5	Sept. 14	10.17	.....	13	Frame	Stove-pipe		V. Brien	Between 1st and 2d and B and C	100	100
6	Sept. 24	.....	9.47	137	....do	Chimney				.....	.....
7	Sept. 26	.....	6.52	131	Brick	Accident		Warner	10th and C streets, n. w	Slight.	.....
										1,300	1,300
1	Oct. 1	11.42	.....	37	Frame	Incendiary	Carpenter shop	F. Thompson	19th, between L and M, n. w	Slight.	.....
2	Oct. 3	.....	11.38	135	Brick	.....do	....do	R. J. Fleming	Alley between 11th and 12th streets	1,200	1,200
3	Oct. 5	1.31	.....	124	Frame	.....do	Dwelling	Cobbest	508 8th street, n. w	150	.....
4	Oct. 8	2.41	.....	621	Brick	.....do	....do	G. Killen	Tennessee avenue, bet. F and G, n. e	1,000	1,000
5	Oct. 8	5.43	.....	621	....do	Stove	....do	....do	.....do	100	100
6	Oct. 10	11.35	.....	32	Frame	Incendiary		E. Hastings	16th, between K and L, n. w	150	150
7	Oct. 18	.....	1.43	62	....do	Defective flue	Stables	Mason & Co	Jackson alley, n. e	400	400
8	Oct. 19	10.47	.....	26	....do	Incendiary		Mrs. Tysen	1047 R street, n. w	Slight.	.....
9	Oct. 30	3.16	.....	23	....do	Tar boiling	Dwelling	Mr. Dailey	O, between 2d and 3d, n. w	1,000	.....
10	Oct. 30	10.59	.....	314	Brick		Tar works	Wooden & Co	G-street wharf, s. w	Slight.	.....

REPORT OF FIRES—Continued.

No. of fire.	Date.	Hour.		Box.	Style of building.	Cause.	How occupied.	Owner or occupant.	Location.	Damage.	Insurance.
	1879.	*a. m.*	*p. m.*								
11	Oct. 30	.....	1.05	43	Steamboat	Turpentine	Passenger boat ...	H. G. Plant	7th-street wharf, s. w	$150	$150
12	Oct. 30	.....	1.01	43	Frame	Defective flue	Dwelling	H. C. Stewart	Alley between 4½ and 6th, s. e	100	100
13	Oct. 31	.....	12.41	217	....do	Hot ashes	....do	.....	1705–1707 19th street	900	900
										5,150	4,750
1	Nov. 1	7.13	.....	212	Frame	Hot ashes	Wood-shed	Mrs. Farnans	11th, between M and N, n. w	100	100
2	Nov. 3	3.00	.....	324	Brick	Unknown	Dwelling	Mr. Dournet	1710 Pennsylvania avenue, n. w	200	200
3	Nov. 4	2.15	.....	124	Frame	Accident	Carriage factory ..	S. G. Meeks	721 G street, n. w	100	100
4*	Nov. 6	.....	9.39	28	....do	Unknown	Schuetzen Park ...	.....	7th-street road	1,500	1,100
5	Nov. 13	8.23	.....	314	....do	Defective flue	Dwelling	H. Knoser	24th, between G and F	100	.....
6	Nov. 13	.....	7.55	28	....do	Coal-oil lamp	....do	F. K. F. Merrick ..	2052 8th street, n. w	.....	.....
7	Nov. 20	9.05	.....	134	Slight	.....	....do	.....	.....	.....	.....
8	Nov. 24	11.30	.....	16	Brick	Gas-stove	National Hotel	W. H. Tenney	Pennsylvania avenue and 6th, n. w	100	100
9	Nov. 27	.....	12.29	31	....do	.....	Dwelling	A. Campbell	1729 H street, n. w	300	300
10	Nov. 30	3.25	.....	13	Frame	Chimney	....do	.....	Purdey's court	Slight.	.....
										800	700
1	Dec. 3	11.20	.....	17	Frame	Defective flue	Furnishing store ..	M. J. Hunt	D, between 7th and 8th, n. w	700	100
2	Dec. 6	6.10	.....	15	4 frames	Incendiary	Dwelling	Thomas E. Wagg .	Prather's alley, between 4th and 5th ..	400	400
3	Dec. 7	.....	8.11	131	....do	.....do	Stable	E Caserly	10th and G streets, n. w	500	500
4	Dec. 10	.....	9.30	126	Brick	Accident	Clothing store	M. E. Eiseman	220 9th street, n. w	1,500	1,500
5	Dec. 14	4.00	.....	124	....do	Unknown	Dwelling	Federal Block	Corner 7th and F streets, n. w	8,600	8,600
6	Dec. 15	4.18	.....	26	....do	Incendiary	....do	W. H. Howell	934 French street	500	500
7	Dec. 16	9.59	.....	213	....do	.....do	....do	.....	928 French street	500	500
8	Dec. 19	.....	6.25	47	Frame	Chimney	....do	Pat. Sullivan	Alley, between 2d and 3d streets, s. w ..	Slight.	.....
9†	Dec. 21	6.17	.....	23	1 frame	Accident	....do	George Simms	427 L street, n. w	300	300
10	Dec. 21	.....	4.09	26	Brick	Incendiary	....do	Hoovell	714 French street	200	200
11	Dec. 28	12.24	.....	312	....do	.....do	... do	I. Rubenstein	Pennsylvania ave., between 22d & 21st.	1,500	1,500
12*	Dec. 30	.....	12.24	28	.....	.....	.....	.....	Terra Cotta Works, county	.....	.....
13	Dec. 30	.....	8.25	217	Brick	Furnace	Dwelling	M. Stewart	Corner Connecticut and Massachusetts avenues.	25,000	25,000
14	Dec. 31	.....	11.09	721	Frame	Incendiary	Machine-shop	W. J. Dyer	Sash and blind factory, Georgetown ..	5,000	5,000
										44,100	41,100
	1880.										
1‡	Jan. 6	.....	12.09	62	Brick	Matches	Dwelling	J. A. Soper	Nos. 6 and 8 Myrtle street, n. e	600	600
2	Jan. 9	.....	4.45	217	False alarm	.....	.....	.....	.....	.....	.....
3	Jan. 10	.....	2.45	131	Brick	.....	.....	.....	.....	.....	.....
4§	Jan. 20	.....	7.35	721	4 bricks	Unknown	Flour-mill	Herr & Cissell	Grace and Potomac streets, Georgetown	61,000	37,500
5	Jan. 21	9.25	.....	25	....do	Matches	School-house	Miller	H, between 6th and 7th, n. w	Slight	.....
6	Jan. 21	.....	1.26	123	Brick	.....	.....	.....	.....	.....	.....

7	Jan. 21	.....	7.22	141	Frame	Unknown	Stable	S. N. Dove	9th, between N and O, n. w	.....	.....
8	Jan. 21	.....	11.27	25	Brick	Accident	....do	Mr. Pomroy	Alley, between K and L, n. w	100	100
9	Jan. 25	.....	6.50	135	....do	Defective flue	Dwelling	T. Robinson	1932 8th street, n. w	Slight.	.....
10	Jan. 30	.....	9.42	28	Frame	.....do	....do			50	50
11	Jan. 31	.....	9.35	28	....do	Chimney	....do	J. Mason	2110 11th street, n. w	.....	.....
										61,750	38,250
1	Feb. 2	8.55	.....	527	Frame	Defective flue	Dwelling	N. Fitzhugh	17th street, east	600	600
2	Feb. 2	.....	1.30	134	.....	Tar-pot boiling over	.....	.....	New York avenue and 13th, n. w	Slight.	.....
3	Feb. 3	.....	11.26	28	.....	Chimney	.....	.....		.....	.....
4	Feb. 4	11.39	.....	28	Frame	Defective flue	Dwelling	.....	11th and N, n. w	100	100
5	Feb. 7	.....	5.25	25	....do	.....do	Store	J. Cohen	1104 7th street, n. w	50	50
6	Feb. 9	.....	6.24	216	....do	Unknown	Dwelling	.....	N, between 16th and 17th, n. w	50	50
7	Feb. 12	.....	10.06	16	Brick	Hot ashes	Hotel	Tenney & Co	6th and Pennsylvania avenue	150	150
8	Feb. 23	.....	7.57	612	.....	Chimney	.....	.....		.....	.....
9	Feb. 23	.....	9.31	721	Frame	Incendiary	Stable	W. H. Offett	Beall, near High street	75	.....
10	Feb. 25	3.07	.....	721	Brick	.....do	Cooper-shop	T. L. Hume	Water and Congress, Georgetown	2,000	1,000
11*	Feb. 26	12.10	.....	73	.....	.....	.....	.....		.....	.....
12	Feb. 27	.....	8.15	412	Brick	Coal-oil explosion	Dwelling	J. Havenner	415 G, s. w	100	100
13	Feb. 28	2.30	.....	216	Frame	Incendiary	....do	H. Dunn	16th, near M, n. w	100	100
14	Feb. 28	.....	.....	73	....do	.....do	Feed-store	D. B. Jackson	High street, Georgetown	200	200
15	Feb. 29	3.14	.....	72	Stone	.....do	Bottling factory	P. H. May	Prospect street, Georgetown	1,000	.....
										3,850	1,550
1	Mar. 6	.....	2.31	27	Brick	Unknown	Dwelling	.....	Rhode Island avenue between 9th and 10th, n. w.	Slight.	.....
2	Mar. 6	.....	4.57	27	....do	.....do	....do	.....	.....do	..do	.....
3	Mar. 7	1.05	.....	32	Frame	Incendiary	....do	Dennis Dunn	1149 16th, n. w	500	500
4	Mar. 9	.....	12.47	51	....do	Unknown	....do	James Fry	New Jersey avenue and D, s. e	Slight.	.....
5	Mar. 10	.....	9.30	73	.....	.....	.....	.....		300	.....
6	Mar. 17	.....	10.47	513	Frame	Unknown	Millinery shop	William Dixon	Corner 8th and D, s. e	1,500	1,000
7	Mar. 21	.....	6.33	14	Brick	Defective flue	City Hall	.....		500	.....
8	Mar. 22	4.09	.....	136	Frame	Ashes in box	Dwelling	R. Sutton	E, between 14th and 15th, n. w	Slight.	.....
9	Mar. 24	11.22	.....	721	.....	.....	.....	.....	.....	200	200
10	Mar. 24	.....	1.22	721	.....	.....	.....	.....	.....	200	.....
11	Mar. 24	.....	2.07	12	Brick	Defective flue	Dwelling	F. Ward	3d, near D, n. w	400	400
12	Mar. 25	5.10	.....	123	Frame	Fire-place	....do	.....	G, between 6th and 7th, n. w	Slight.	.....
										3,600	2,100
1	Apr. 1	.....	.....	72	Frame	.....	Dwelling	.....	.....	.....	.....
2	Apr. 4	1.40	.....	212	....do	Incendiary	....do	P. Murphy	11th, near Rhode Island avenue, n. w	800	800
3	Apr. 7	.....	7.20	216	....do	Chimney	....do	.....	1524 O street, n. w	Slight.	.....
4	Apr. 7	.....	7.52	315	....do	Explosion, coal-oil	....do	Mr. Brooks	1007 23d street, n. w	..do	.....
5¶	Apr. 10	12.12	.....	43	....do	.....	.....	.....	.....	150	150
6	Apr. 10	12.15	.....	39	....do	.....	.....	.....	.....	200	200
7	Apr. 16	.....	7.41	124	....do	Ashes	Clothing store	A. Saks	7th street, n. w	Slight.	.....
8	Apr. 18	.....	8.00	216	....do	Incendiary	Liquor store	W. Fagen	Corner 15th and P streets, n. w	700	700
9	Apr. 22	10.46	.....	312	....do	.....do	Stable	Mrs. Random	Corner 21st and I streets, n. w	Slight.	.....
10	Apr. 23	3.11	.....	38	....do	False alarm	.....	L. Duke	2012 K street, n. w	.....	.....

REPORT OF FIRES—Continued.

No. of fire.	Date.	Hour.		Box.	Style of building.	Cause.	How occupied.	Owner or occupant.	Location.	Damage.	Insurance.
		a. m.	*p. m.*								
11	Apr. 23	.....	1.37	131	Frame	Gas-jet	Grocery	.....	.....	Slight.	.....
12	Apr. 26	.....	.....	36	Brick	Defective flue	.....	.....	.....	..do ...	.....
13	Apr. 27	.....	3.26	62	Frame	.....	.....	.....	.....	..do ...	.....
14	Apr. 27	.....	9.41	412	....do	Incendiary	Furniture	C. R. S. Crown	North Capitol and H	$1,500	$1,000
15	Apr. 28	1.34	.....	38	....do	.....do	Grocery	L. Duke	7th and D streets, s. w	1,000	1,000
									2012 K street, n. w	4,350	3,900
1	May 10	10.30	.....	37	Frame	Defective flue	Dwelling	.....	Corner 19th and 9th, n. w	Slight	.....
2	May 13	.....	8.18	721	...do	Incendiary	Stable	Dr. Lyme	Georgetown	1,000	1,000
3	May 17	.....	8.22	42	....do	.....do	Dwelling	Williams	½ street east, between K and L	1,000	700
4	May 22	.....	7.29	213	....do	.....do	Stable	.....	Alley, between R and S, n. w	800	400
5	May 22	.....	8.22	32	Brick	.....do	Dwelling	Col. Bell	17th, between K and L., n. w	600	.....
6	May 26	.....	8.39	126	....do	Explosion chemicals	Drug-store	A. Kloviskeis	9th, between D and E. n. w	550	550
										3,900	2,650
1	June 6	.....	9.02	125	Brick	Spontaneous combustion	Paint store	Gill & Reader	K, between 7th and 8th, n. w	Slight.	.....
2	June 7	.....	3.40	324	....do	.....do	Millinery store	Demorest	1714 Pennsylvania avenue, n. w	50	.....
3	June 21	11.45	.....	127	....do	.....do	Dwelling	Hutchinson	H, between 9th and 10th, n. w	500	.....
4	June 22	3.15	.....	24	Frame	Incendiary	....do	Thomas Heany ...	1st and Q	800	800
5	June 25	9.00	.....	132	Brick	Furnace	Planing-mill	Draper & Co	Corner D and 13th, n. w	250	200
6	June 26	.....	.....	431	Frame	Children, matches	Dwelling	C. Dunforth	13th, between B and C, s. w	100	100
7‖	June 28	.....	8.55	47	....do	Coal-oil explosion	Explosion	.....	E street, between 6th and 4½, s. w	Slight	.....
										1,700	1,100

*In county. †Joseph A. Lorsey burned to death. ‡Special alarm. §General alarm. ‖Child badly burnt. ¶In Uniontown.

H.—REPORT OF THE ATTORNEY.

OFFICE OF THE ATTORNEY
FOR THE DISTRICT OF COLUMBIA,
Washington, September 1, 1880.

GENTLEMEN: My last annual report covers a period from the 1st of November, 1878, to September 1, 1879. This, which I am advised is in accordance with your request, closes with the fiscal year ending June 30, 1880.

The following shows the disposition of the cases referred to:

The Campbell case, appealed to the general term of the supreme court of the District, was, on hearing, decided in favor of the District.

The Murtagh case, appealed to the general term by the District, and in which there was a judgment for $20,640.20, was settled by the Commissioners before hearing.

Strong case: The management of this case was intrusted to Mr. Francis Miller, my assistant. The trial of it commenced on the 3d of December, 1879, and terminated February 20, 1880. The jury, under the instructions of the court, rendered a verdict in favor of the District.

Questions of law of very great importance to the District, in this and other cases, were decided in its favor.

1st. That all contracts made by the board of public works without a previous appropriation by law are void, and a contractor cannot recover for work done in consequence of such contract.

2d. That when contractors have received the auditor's certificates of the board of public works, and have indorsed them in blank and parted with them to third parties, and these certificates have been paid or redeemed by the District, the District is entitled to credit for the full face amount of the certificates.

3d. That where a contractor has submitted his claims to the late board of audit, and the said board has made an award, and the contractor has received the benefit of that award, it is a final adjudication, and precludes further recovery.

These questions, with some others of a more general character, disposed of the case, at least so far as the trial in the circuit court was concerned.

It is a just cause of congratulation that these important points of law were decided in a case in which no injustice could be done the contractor. In every one of the contracts sued on in this cause the amount due to Mr. Strong had been definitely ascertained in the manner prescribed by the contract itself, by measurement of the engineers of the District, and the sums so found due have been paid by the District in cash or by its bonds. In one case, that of the Georgetown contract, by mistake of the District officers, Mr. Strong was overpaid $21,217.90. This overpayment was found by the board of audit, and was by them charged against Mr. Strong as work done by him on the Boundary street sewer, which was not included in this suit.

This case has been appealed by the plaintiff to the general term, and will probably be heard at the next term of the court. Mr. Miller was assisted by Mr. Carusi.

The Young case: On hearing in general term, the judgment obtained in favor of the District in the court below was reversed and the case remanded for new trial. The District made a motion for a rehearing, which is pending in general term.

The Washington and Georgetown Railroad Company case: Action to

recover value of work done by company in front of its premises under permit from the late board of public works. On trial in the circuit court a verdict was rendered in the company's favor. I appealed the case to the general term, where, on hearing, the judgment of the circuit court in favor of the plaintiff was affirmed. The case cannot be further litigated.

The Collins case: This case reached the general term on certiorari from the police court. An information was filed in the police court against Collins, charging him with creating and maintaining a nuisance injurious to health in the city of Washington, under an ordinance of the late board of health. The court decided that the ordinance under which the information was filed was invalid; that the board of health had power to define what is a nuisance, and executive power to remove such, but not the power to impose fines and penalties. No further prosecutions were commenced in the police court in this class of cases until after the passage of the act of Congress approved April 24, 1880, which legalized and declared valid the ordinances of the board of health imposing penalties for violation thereof.

The O'Neill case: Action to recover amount alleged to be due contractors for sweeping the alleys of Washington and Georgetown was, on a second trial in the circuit court, decided in favor of the plaintiffs.

The Washington and Georgetown Railroad case: Suit in equity to enjoin the District from collecting special assessments due by the company for paving Pennsylvania avenue, under the act of Congress of July 19, 1876. On hearing in the equity court an injunction was granted restraining the District. I appealed the case to the general term, and the court dismissed the complainant's bill.

National Metropolitan Bank case: This was one of a series of cases brought by the banks of this District to test the question of the taxation of certain stock of the bank. The facts being similar in all of the cases, by consent of counsel the decision in this suit was to govern all. The case was certified to the general term, there to be heard in the first instance. On hearing the court decided in favor of the banks. The result of these cases was reported to Congress.

Morgan case, decided in circuit court in favor of the District, was appealed by the plaintiff, and on hearing in general term the judgment of the circuit court was reversed and case remanded for new trial. Subsequently it was referred to the auditor of the court, where it is now pending.

McNamara case: Action brought to recover alleged damages due plaintiff on account of injuries received by falling into excavation. On trial in the circuit court the jury awarded the plaintiff $100. I was satisfied with the verdict, considering the injuries done him, and did not appeal. Plaintiff, not satisfied with judgment, appealed to the general term, but subsequently withdrew the same.

The Alexander case: Bill to enjoin the issuing of certificates of indebtedness for non-payment of assessments against his private property for paving Pennsylvania avenue by the Commission, under act of Congress of July 19, 1876. This case rests upon the same legal basis as the Washington and Georgetown Railroad case.

To the bill a general demurrer was interposed, and the case was certified to the general term. On hearing, the bill of the complainant was dismissed.

Browning case: Action for trespass. On trial in the circuit court. The jury, under instructions from the court, rendered a verdict in favor of the District. The case was appealed by Browning and the general term reversed the judgment and remanded case for new trial.

Fleming, for use of Freedman's Savings and Trust Company, case: Action for work and material on the Sumner school-house. Fleming received a voucher for $10,000, after having assigned his interest to Freedman's Savings and Trust Company. Trust company not having notified trustees of public schools of assignment, court held that company could not hold District liable. Plaintiff appealed to general term, where the judgment in favor of the District was sustained.

Du Bose case: Action for injuries sustained by falling over precipice on Thirteenth, near F, northwest. On trial, verdict was given against the District in the sum of $10,000. I appealed to the general term, where the judgment was sustained. I have taken the case to the Supreme Court of the United States.

Washington Gas Light Company case: The District being indebted to the Gas Company for gas consumed in the street lamps, claimed the right to retain for two years' license for manufacturing gas under the act of the District legislature of December 28, 1871, amounting to $1,520.50, which the District retained. This action is brought to recover said sum, the company claiming that the act of March 3, 1877, taxing its capital, repealed the District legislative act of December 28, 1871; that they are inconsistent, and hence the former repealed the latter. The case was certified to the general term, where on hearing, the license tax was sustained.

Cooper case: The District filed an information in the police court against Cooper for selling, as a produce dealer in the Washington market, without having first obtained a license as required by the act of the District legislature. The case was taken to the general term by *certiorari*. The general term held that the defendant was required to pay the tax.

Bradford case: Bradford was prosecuted in the police court, upon an information charging him with being a claim agent, and prosecuting said business without a license. The case was taken from the police court to the criminal court by *certiorari*, where, after argument, the validity of the tax was sustained. The defendant appealed from the decision of the criminal court to the general term, where, after argument, the case was stricken from the calendar of said court, and remanded to the criminal court for hearing, the court deciding that it did not have jurisdiction of the case.

H. Clay Jones case: Suit to enjoin the District from taking possession of the garbage wharf on James Creek Canal. The bill in this case was dismissed.

Lubey case: Action brought by the District on bond given by Lubey, as water registrar of the District to recover $25,000; amount which Lubey failed to account for. Pleas have been filed in this case, and the cause will be on the calendar of the October term of court for trial.

Other cases have been tried.

The whole number of civil cases finally disposed of since the last report, 29; whole number of new civil cases commenced, 7; law, 4; equity, 3; now pending, 236; law, 108; equity, 128.

Criminal cases (by Mr. Miller): Cases disposed of, 42; cases appealed and docketed since last report, 118; cases outstanding, 145; amount of judgments collected, $429.

Number of cases tried in the police court, 3,025; amount of fines imposed, $16,535.

Opinions, number of which impressions taken, 82; covering pages, 233. To which should be added a great number of cases upon the papers of which the attorney's opinion was indorsed.

It will be remembered that the labor of preparing a code for the District was concluded in the first part of the current year, and duly reported. This, under the supervision of this office, was outside of its ordinary duties. Also, the examination of the manner of making the revision of the special assessments for improvements, by the Commissioners of the District, before the House Committee upon the District of Columbia, withdrew the time and attention of the undersigned from his ordinary duties for the period of five or six weeks in necessary attendance upon the sessions of the committee.

Appended find the report of my assistant, Mr. Padgett, of the course of business in the police court.

I renew my former recommendations for an increase in the compensation of my assistants and law clerk. I deem that in justice the first assistant should receive at the least $2,400, and the second assistant and law clerk $1,200 each.

Respectfully submitted,

A. G. RIDDLE,
Attorney for the District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX H 1.

REPORT OF THE SPECIAL ASSISTANT ATTORNEY.

ATTORNEY'S OFFICE, D. C., *September* 14, 1880.

SIR: I have the honor to transmit herewith a report of the cases tried in the police court from October 1, 1879, to July 1, 1880:

Number of cases tried	3,025
Convictions	2,747
Dismissals	284
Continued	21
Suspended	4
Nol. pros	5
Amount of fines imposed	$16,535

The above cases were distributed as follows:

Barber-shop open on Sunday	2
Bar open on Sunday	23
Bar open after hours	6
Bathing in river	9
Buying junk of minors	1
Concealed weapons	78
Cow-yards	17
Cruelty to animals	7
Destroying street lamps	2
Destroying tree	5
Destroying private property	54
Destroying public property	4
Disturbing school	2
Disturbing grave	2
Disturbing church meeting	9
Disorderly conduct	960
Driving over pavement	8
Driving through funeral	6
Driving through procession	1
Enticing prostitution	2
Excavating without permit	1
Fast driving	22
Fast driving over bridge	1
Failing to remove snow	36
Fighting dogs	2
Filth in street	4

Firing pistol in street	13
Illegal measure	4
Indecent exposure	58
Mixing mortar on concrete pavement	1
Nuisance	31
Obstructing footway	26
Obstructing gutter	31
Obstructing street	10
Playing ball in street	10
Profanity	438
Prostitution in county	3
Refusing to assist officer	3
Selling on Sunday	1
Selling potatoes by measure	2
Selling liquor to minor	1
Setting off fire-crackers	2
Throwing stones	63
Trespass on park	30
Tying horse to tree	2
Unlicensed bar	35
Unlicensed commercial agent	2
Unlicensed liquor dealer	2
Unlicensed photographer	1
Unlicensed produce dealers	42
Unlicensed restaurant	3
Unlicensed scales	2
Unlawful use of street washer	2
Vagrancy	921
Violating building regulations	21
Violating cart law	8
Violating hack law	13
Violating market regulations	6

Besides the cases herein specified there were a large number of cases in which parties were charged with doing business without a license, and the defendants permitted to take out a license, and no record kept of the proceedings.

Very respectfully,

JAS. E. PADGETT,
Special Assistant Attorney, D. C.

A. G. RIDDLE,
Attorney for the District of Columbia.

APPENDIX H 2.

OUTSTANDING JUDGMENTS AGAINST THE DISTRICT OF COLUMBIA.

OFFICE OF THE ATTORNEY
FOR THE DISTRICT OF COLUMBIA,
Washington, September 28, 1880.

GENTLEMEN: Herewith find list of outstanding judgments against the District of Columbia.

Respectfully,

A. G. RIDDLE,
Attorney for the District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Names.	When obtained.	Amount.	Interest from—	Costs.
The Washington and Georgetown Railroad Company	Nov. 11, 1879	$1,515 30	May 1, 1874	$28 85
Frederick Dahler	Mar. 15, 1880	150 00	Mar. 15, 1880	100 55
Jacob H. Collins	Feb. 17, 1880	.....	.....	14 70
Mary L. Fendall et al	Mar. 11, 1880	.....	.....	22 20
Timothy Brosnan	May 20, 1879	.....	.....	34 05
Peter Shields	Dec. 9, 1879	.....	.....	19 20
John Burns	Dec. 9, 1879	.....	.....	18 90

APPENDIX H 3.

ESTIMATES FOR CLERICAL SERVICES AND CONTINGENT EXPENSES.

OFFICE OF THE ATTORNEY
FOR THE DISTRICT OF COLUMBIA,
Washington, August 6, 1880.

GENTLEMEN: I have the honor to transmit herewith estimates for this office for the fiscal year ending June 30, 1882.

For salary of attorney	$4,000
For salary of first assistant attorney	2,400
For salary of second assistant attorney	1,200
For salary of clerk	1,200
For salary of messenger	192
For rent of office	300
For miscellaneous expenses	900
	10,192

Respectfully,

A. G. RIDDLE,
Attorney for the District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

I.—REPORT OF THE CORONER.

CORONER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, D. C., September 14, 1880.

GENTLEMEN: I have the honor to transmit herewith a detailed statement of the operations of this office for the year ending June 30, 1880.

I respectfully call your attention to former recommendations in relation to the establishment of a *morgue* in the District. I would also urge the passage by Congress of a bill reducing the number of jurors to six, and the reduction of their compensation to $1 for each inquest.

Respectfully,

D. C. PATTERSON, *Coroner.*

Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX I 1.

ESTIMATE OF EXPENDITURES.

CORONER'S OFFICE, DISTRICT OF COLUMBIA,
Washington, D. C., September 8, 1880.

GENTLEMEN: In compliance with your request of July 14 (ultimo), I have the honor to submit the inclosed estimate of sums required for the maintenance of this office for the year ending June 30, 1882.

Respectfully, your obedient servant,

D. C. PATTERSON, *Coroner.*

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Estimate of expenses of the coroner's office for the year ending June 30, 1882.

Salary of coroner	$2,000
Jurors' fees	700
Miscellaneous expenses	300
	3,000

APPENDIX I 2.

Tabular statement of deaths certified by the coroner during the year ending June 30, 1880.

Willful violence:	
Suicide—	
By gunshot wounds	6
By incised wounds	2
By narcotic poison	4
By hanging	5
By jumping from buildings	3
Homicide—	
By gunshot wounds	5
By paving stone	1
By pyæmia from abortion	1
By infanticide	2
By neglect of birth, &c	17
Accidents and negligence:	
Burns	3
Choked by food	1
Drowning	16
Exposure to cold	1
Falling from buildings	3
Falling of gravel-bank	1
Falling on pavement	1
Gunshot wounds	3
Irritant poison	2
Overlaid by mother	9
Run over by railroad cars, &c	7
Still-births (known)	16
Still-births (unknown)	34
Sunstroke	1
Diseases:	
Aneurism of aorta	2
Angina pectoris	2
Apoplexy	9
Bright's disease	1
Bronchitis, capillary	16
Bronchitis, chronic	4
Cancer of breast	3
Cancer of liver	1
Cancer of womb	1
Catarrh	1
Cholera infantum	26
Cholera morbus	2
Congestion of brain	2
Congestion of lungs	25
Convulsions	1
Convulsions (infantile and trismus nascentium)	69
Croup	6
Cystitis	2
Debility, congenital	54
Debilty, senile	9
Diarrhœa	35
Diphtheria	3
Dropsy	3
Dropsy of pericardium	1
Dysentery	3
Enteritis	2
Epilepsy	4
Fever, congestive	1
Fever, remittent	1
Fever, typho-malarial	1
Gastritis	1
Hemorrhage of lungs	6
Hemorrhage of womb	1
Heart disease	18
Hydrocephalus, chronic	1
Hypertrophy of heart	1
Inanition	25

Intussusception	2
Jaundice	1
Laryngitis, chronic	1
Lupus	1
Marasmus	2
Meningitis	1
Metro-peritonitis	1
Nephritis	1
Paralysis	4
Pericarditis	3
Peritonitis	2
Phthisis pulmonalis	45
Pneumonia	29
Rupture of pulmonary artery	1
Rupture of vena cava	1
Syphilis	1
Whooping cough	1
Total suicides	20
Total homicides	7
Total infanticides, &c	19
Total by accidents and negligence	98
Total by disease	440
Total of all cases certified by the coroner	584
Whole number of white cases	139 = 23.80 per cent.
Whole number of colored cases	445 = 76.20 per cent.
Died without medical attendance	411

Occupation.

Army officer	1	Musician	1
Baker	1	Music teacher	1
Banker	1	Painter	4
Barber	2	Pilot	1
Blacksmith	2	Policeman	1
Brickmaker	1	Preacher	1
Butcher	1	Prostitute	1
Carpenter	6	Purser	1
Clerk	3	Sailor	1
Coachman	1	Schoolboy	4
Collector	1	School teacher	1
Cook	1	Seamstress	2
Cooper	1	Secretary	1
Driver	1	Servant	15
Engineer	3	Shoemaker	5
Florist	1	Soldier	5
Grocer	2	Stone-cutter	2
Housekeeper	15	Tailor	2
Laborer	41	Tanner	2
Laundress	2	Waiter	1
Lawyer	2	Remaining	439
Machinist	2		
Merchant	1	Total	584
Messenger	1		

Monthly mortality.

July	48
August	45
September	46
October	43
November	43
December	58
January	38
February	41
March	61
April	55
May	46
June	60

Nativity:

District of Columbia	408
Other parts of the United States	135
Ireland	15
Germany	8
England	2
France	1
Canada	2
Switzerland	2
Japan	1
Bermuda	2
Unknown	8

	Total deaths.	White.		Colored.	
		Male.	Female.	Male.	Female.
Zymotic diseases	105	10	6	52	37
Constitutional diseases	54	4	6	16	28
Local diseases	218	25	13	92	88
Developmental diseases	61	7	5	23	26
Violence	96	41	12	31	12
Still-births	50	5	5	21	19
Total	584	92	47	235	210

Age.	White.	Colored.	Total.
Under 1 month	24	126	150
Between 1 month and 1 year	16	104	120
1 to 5 years	6	55	61
5 to 10 years	2	8	10
10 to 20 years	6	15	21
20 to 30 years	11	22	33
30 to 40 years	16	13	29
40 to 50 years	15	15	30
50 to 60 years	11	12	23
60 to 70 years	11	11	22
70 to 80 years	9	13	22
80 to 90 years	2	5	7
90 to 100 years	.....	5	5
Over 100 years	.....	1	1

Social relation, above the age of 20 years.

Sex and color.	Widow or widower.	Married.	Single.	Total.
White, male	10	21	22	53
White, female	5	14	3	22
Colored, male	6	30	11	47
Colored, female	22	17	9	48

I certify the foregoing statement is correct.

D. C. PATTERSON,
Coroner.

K.—REPORT OF THE MAJOR OF POLICE.

DEPARTMENT METROPOLITAN POLICE,
OFFICE OF MAJOR AND SUPERINTENDENT,
Washington, D. C., September 1, 1880.

GENTLEMEN: I have the honor to present this the nineteenth yearly report of the condition of the police of this District, for the year ending June 30, 1880, being a tabulated statement showing the disposition of the force, time lost by sickness and other causes, number of arrests according to sex in each precinct, showing the ages of males and females arrested, classification of offenses for which arrests were made, nativity of persons arrested, their trades and callings, with other information regarding the routine duties of this department, the report of the sanitary officer and property clerk, with estimates required for the support of this department for year ending June 30, 1882, said estimates being based on the force as at present authorized by law.

INCREASE OF THE FORCE.

Conversant as the honorable Commissioners are with police matters, it is scarcely necessary for me to allude to the total inadequacy of the force as at present authorized by law, but the urgent necessity for an increase thereof, in view of the daily and hourly danger to which the lives and property of our citizens as well as the property of the general government are exposed, by being without sufficient police protection, compels me to do so.

In 1866 when the present number of patrolmen (200) was authorized by Congress, the population of the District was about 88,879, at present it is 178,000.

The valuation of property, both private and that belonging to the general government, has more than increased in the same ratio.

The territory requiring police patrol and protection has also, during the same period (fourteen years) greatly increased, streets and avenues have been opened, lengthened, and improved upon, numerous squares in every section of the city that in 1866 were not in the least improved, and consequently required little or no police protection, are now thickly settled and covered with buildings of great value, urgently demanding police protection and surveillance.

Bearing testimony, as I unhesitatingly do, to the efficiency of the greater portion of the force, yet it must be patent to all that a patrolman, no matter how vigilant and efficient he may be, cannot give due police protection whilst covering a beat from ten to fifteen miles in length, as is now too often and unavoidably the case.

I therefore respectfully recommend that the Commissioners urge on Congress the great necessity of an increase of this force as follows:

One captain (as night inspector).
Seven sergeants.
One hundred and fifty privates or patrolmen.

STATION HOUSES.

The superintendent respectfully reports that the buildings rented by the District for station-house purposes are not adapted to the service, the sewerage and ventilation in most of them being defective, the rooms too small and inconveniently arranged.

The station-houses in the following precincts are rented by the District.

No. 1 at a rental of	$780 00
No. 2 at a rental of	1,060 00
No. 5 at a rental of	1,200 00
No. 6 at a rental of	1,000 00
No. 7 at a rental of	960 00
Police headquarters	900 00
Substation Uniontown	60 00
Making a total of	5,960 00

The District government own the buildings used as station-houses in the third, fourth, and eighth precincts.

A great objection to the rented station-houses is the close proximity of the cells, lodging-rooms, and water-closets to the rooms occupied as sleeping-rooms by the officers and privates, and although the greatest attention is paid to the cleanliness of the cells and water-closets, it is found nearly impossible to keep them so clean, especially at night when occupied by prisoners and lodgers, as to prevent them from being extremely offensive to the sense of smell. The noise, too, very often prevents the tired-out patrolman and sergeant from taking the rest and sleep so much needed after their tour of duty, or equally required to perform that on which they are preparing to enter. More especially is this the case during the summer months.

This matter of station-houses is one of the greatest importance to the health and comfort of the force, and I therefore earnestly call the attention of the Commissioners to the great necessity of erecting buildings for such purposes to take the place of those now rented. On economical principles, too, it would also be desirable, as suitable buildings could be built that would cost much less than the District has to pay at present.

INFIRM AND DISABLED MEMBERS OF THE FORCE.

Year by year it becomes more and more evident that some provision must be made for infirm and disabled members of the force. As a matter of economy, if for no higher motive, such provision should be made. There are many on the force who, from long, faithful service and advancing years, have become unable to perform the proper duties of a policeman. Discipline and training will tell, and the policemen alluded to as long as their health will permit them to walk at all will go through the forms of police duty, but it is not that vigorous, vigilant watchfulness so much needed for the protection of the lives and property of our citizens and visitors. It would be unjust to remove these men, after nearly twenty years' faithful service, without some provision for their old age. Such provision I respectfully submit to you, and earnstly call your attention to the urgency of the retirement of such officers and the filling of their places by younger, able-bodied men.

The following table exhibits the year of appointment of the 200 privates at present constituting the patrolmen of the force:

1861	13	1871	13
1862	4	1872	7
1863	1	1873	13
1864	6	1874	7
1865	2	1875	17
1866	7	1876	8
1867	23	1877	3
1868	8	1878	23
1869	13	1879	13
1970	9	1880	10

DARK ALLEYS.

In the pursuit of criminals, and following up clues leading to their detection, this department is greatly hindered by the numerous alleys that are without light. Crime and light, except in occasional cases, will not associate; therefore the alleys referred to greatly aid the criminal classes in their vocation. On the one hand lack of light allows them to commit depredations with greater security, and on the other, when depredations are committed in other localities, the perpetrators are in many cases enabled to elude the vigilance of the officers by fleeing through or hiding in them.

It gives me pleasure to state that during the past fiscal year the Commissioners caused 33 lamps to be placed in the alleys most in need of them. I am informed that during the present year there will be 50 more of them furnished. There will then remain about 130 alleys to be provided for in this respect. In this connection I am enabled to report, both by personal observation and the reports of the several lieutenants, that the lamps erected during the past year have more than accomplished what was expected. Alleys that previously required constant vigilance on the part of the patrolman to prevent disorder and crime have become safe to pedestrians, and the officers are very seldom called on to preserve the peace.

FISH LAW.

The act of Congress relative to "the protection of the Potomac fisheries in the District of Columbia and for the preservation of shad and herring in the Potomac River," approved April 6, 1880, made no provision for defraying the expenses which must occur in the enforcement of its provisions.

The superintendent cheerfully acknowledges the great indebtedness of the department to the Hon. Secretary of the Navy, Commodore John C. Febinger, and Capt. J. C. P. De Krafft, who kindly placed a steam launch at his disposal for the purpose of enabling the officers of this department to see that the requirements of said law were fully carried out and that none of its sections were violated.

As this department cannot expect the continued use of the steam launch, I respectfully request that means be provided either through Congress, or otherwise, to enable this department to carry said law into effect.

MOUNTED FORCE.

The mounted force consists of 1 major and superintendent, 1 captain and inspector, 4 lieutenants, 3 sergeants, and 43 privates. By this means the county beats are more thoroughly patrolled. Their services are also very valuable in the city, where they are kept constantly moving throughout their several precincts. The benefits derived from them are very evident in cases of fire, which they can reach sooner than footmen, and control the crowd that generally collects at such a time much better. In processions of all kinds, or wherever a crowd collect, their services are invaluable. They see that the provisions of the "coal law" are not violated, and in numerous other ways perform duty that otherwise would have to be performed by footmen, with the advantage to the service and the public of having the same performed more expeditiously and with fewer men.

CITY HOSPITAL.

As in numerous previous reports, the superintendent would again respectfully call the attention of the Commissioners to the urgent need of a hospital to which parties taken suddenly sick or the victim of accident or crime could be at once removed. At present patients have to be carried to the nearest station-house, where there are no facilities for their accommodation, a physician summoned with more or less delay, as the case may be, and then, if the case requires it, the patient is conveyed to the hospital. This delay could be avoided if there was a place, no matter how small, where the patient could be taken when the accident occurred, such place to be always provided with such remedies as are most likely to be required, thus saving time, which, in many of the cases referred to, is of the greatest importance. Such an institution should be centrally located. It need not be large, and it could work in unison with the Free Dispensary on Sixth street, between E and F streets, northwest.

The Freedmen's Hospital and the Washington Asylum Hospital are the only places that are available for such purposes at present, but are both remote from headquarters and are designed for special classes.

REFORMATORY FOR GIRLS.

An institution for the reformation of erring girls is greatly needed in this District. This department is very frequently called upon to seek out the hiding-places of such, but when successful, as we generally are, of what avail is it? We have no place in this District to which they could be consigned, where by judicious, moral treatment, counsel and encouragement an opportunity would be given them to reform, which in many cases would, I think, be successful. At present, for lack of such an institution, the fugitives, after being brought from their hiding-places, are perforce returned to their parents or guardians, to be again subjected to the same influences that caused their fall, thus rendering it nearly impossible for them to ever become respectable members of society. All this in the capital of the United States, a city of 178,000 inhabitants, and in the nineteenth century. A new District jail was required, and it was built; we have station-houses scattered all over the District for the detention of violators of law, but not a place in all our magnificent city to enable or assist an unfortunate girl to overcome the results of the first false step in life.

I cannot too strongly recommend the establishment of such an institution; humanity as well as the interests of society imperatively demands it.

REFORM SCHOOL.

I would respectfully invite the attention of the Commissioners to the urgent necessity for enlarging the Reform School of this District. At present, in consequence of inability to accommodate them, incorrigibles are often returned to their parents or guardians, to again fall into vicious ways and be again and again arrested by members of this department, thus making their reclamation far more uncertain than it would be if they were detained in the Reform School when first committed.

ST. ANNE'S ASYLUM.

As in previous years, the superintendent again desires to express the gratitude and indebtedness of the department to this noble institution;

it has kindly and readily responded to the numerous calls made upon it, greatly to the relief of the police, who otherwise would be much embarrassed to provide homes for the many infants thrown by unfeeling parents on the charity of the public.

DISCIPLINE OF THE FORCE.

It is confidently believed that the discipline of the force is as near perfection as any similar organization in this country. To enforce it, there have been cited before the trial committee during the past year, on complaints preferred, 81 members of the force, as shown in the following table:

Conduct unbecoming an officer of police	1
Conduct unbecoming a policeman	10
Gross neglect of duty	12
Intoxication	10
Intoxication and insubordination	1
Insurbordination and neglect of duty	1
Malicious arrest	1
Neglect of duty	17
Neglect of duty and disobedience of orders	1
Unlawful arrest	2
Violation of rules and regulations	25
	81

SENTENCE.

Charges dismissed	38
Cautioned	3
Dismissed the force	13
Fined $5	3
Fined $5 and reprimanded	1
Fined $10	2
Fined $10 and reprimanded	1
Fined $20	1
Fined $20 and reprimanded	2
Fined $30	1
Fined $50	1
Fined $60	1
Resigned under charges	2
Reduced to the ranks and reprimanded	1
Reduced to the ranks and fined $25	1
Required to pay just debts	10
	81

CHARITY.

During the fiscal year last past there has been received from the fund for relief of worthy poor $4,400; this amount was carefully and judiciously distributed to persons coming strictly under the head "worthy poor." It is estimated that from this amount 1,820 persons were relieved, and each case was thoroughly investigated before relief was furnished.

In connection with this it may be proper for me to state that, in distributing charity such as this, the police have more facilities for ascertaining whether the parties seeking relief really come under the head of those entitled to receive it, than any association could have; each and every officer should know the resident poor on his beat and be able to testify to their worthiness or the contrary. There is also another class of our people, poor and worthy but too sensitive to ask relief or make known their sufferings; many such have been relieved, where, through inquiries made, it has been discovered that families were actually suffer-

ing for the necessaries of life and yet would not report the fact, but preferred to suffer in silence.

Estimates for fiscal year ending June 30, 1882.

PAY ROLL.

Major and superintendent	$2,610 00
Captain and inspector	1,800 00
Secretary and property clerk	1,800 00
Clerk	1,500 00
3 surgeons, at $450 each	1,350 00
6 detectives, at $1,320 each	7,920 00
10 lieutenants, at $1,200 each	12,000 00
20 sergeants, at $1,140 each	22,800 00
7 acting sergeants, at $1,080 each	7,560 00
120 privates, class 2, at $1,080 each	129,600 00
73 privates, class 1, at $900 each	65,700 00
16 station keepers, at $516 each	8,256 00
8 laborers, at $420 each	3,360 00
3 telephone operators, at $780 each	2,340 00
1 messenger	900 00
1 messenger	360 00
1 inspector of licenses	1,095 00
2 drivers, at $300 each	600 00
Ambulance driver	600 00
Major and superintendent mounted service	360 00
Captain and inspector mounted serviee	240 00
50 lieutenants, sergeants, and privates at $240	12,000 00
Total pay roll	284,751 00
Rent of station houses and headquarters	5,960 00
Fuel	1,500 00
Repairs to station houses	1,500 00
Miscellaneous expenses, including stationery, gas, telegraphy, ice, washing, meals for prisoners, photographs, printing and binding, rent of telephones, expenses of ambulance and team, expenses incurred in detection and prevention of crime, for furniture and repairs to same, for arms and equipments, and contingencies	15,000 00
In all	308,711 00

In conclusion permit me, gentlemen, to heartily acknowledge the uniform kindness and courtesy which this department in all its branches, has received from you. It has been and is encouraged, sustained, and upheld in the strict, faithful, and impartial performance of all the duties required of it by law, whether United States or local. All necessary requisitions for the comfort, convenience, and welfare of its officers and members have been promptly approved and furnished. In the matter of punishment of any of its members for violations of the rules and regulations laid down for our guidance, such punishment you have invariably tempered with mercy where the good of the service would allow it. With such a commission at its head and the non-partisan nature of this department, its officers and members can well afford to do their whole duty without regard to the name, rank, influence, or power of the party or parties that such action may interfere with.

WM. G. BROCK,
Major and Superintendent Metropolitan Police.

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

Statement of money and estimated value of property taken into possession of the Metropolitan police, and delivered to owners and property clerk, during year ending June 30, 1880.

Date.	Detective.	First precinct.	Second precinct.	Third precinct.	Fourth precinct.	Fifth precinct.	Sixth precinct.	Seventh precinct.	Eighth precinct.
July	$243 82	$276 85	$673 29	$1,310 34	$447 45	$1,918 67	$160 33	$242 48	$593 13
August	1,667 05	140 90	369 17	190 40	302 16	1,821 99	180 50	77 48	477 31
September	1,675 28	1,243 73	675 21	277 21	593 72	3,172 79	674 04	305 30	1,444 33
October	1,422 82	284 26	239 05	334 05	430 89	1,708 44	236 25	951 05	333 02
November	312 84	502 29	746 11	1,393 57	384 17	2,275 06	661 30	759 48	347 35
December	551 26	260 90	449 65	511 40	162 74	1,995 32	750 59	1,271 20	834 35
January	1,961 38	1,377 56	884 69	631 60	182 78	2,309 64	894 25	812 05	823 46
February	277 50	386 20	218 16	776 93	124 50	1,267 57	193 50	706 86	1,021 77
March	664 56	176 75	247 21	688 46	862 28	1,760 89	700 02	1,004 91	1,159 94
April	789 70	194 08	323 17	260 19	1,634 82	507 55	193 06	752 50	341 06
May	1,540 93	333 67	1,329 30	913 72	778 05	984 85	1,442 33	542 25	716 81
June	812 27	484 36	154 89	409 37	626 73	735 53	302 20	1,150 43	138 50
Total	11,919 41	5,661 55	6,309 90	7,717 24	6,530 29	20,458 30	6,688 37	8,575 99	8,231 03

Total amount, $82,092.08.

WM. J. DUNIVAN,
Property Clerk Metropolitan Police District.

APPENDIX K 1.

TABLE OF ARRESTS, ETC.

No. 1.—*Table showing the disposition of the force.*

Precincts.	Major and superintendent.	Captain and inspector.	Lieutenants.	Sergeants.	Acting sergeants.	Privates.	Detailed.	Vacancies.	Total.
First	.....	.....	1	3	1	23	3	.....	31
Second	.....	.....	1	2	1	17	.....	.....	21
Third	.....	.....	.....	3	.....	18	2	.....	23
Fourth	.....	.....	1	3	.....	17	3	.....	24
Fifth	.....	.....	1	2	2	21	4	.....	30
Sixth	.....	.....	1	2	1	19	2	.....	25
Seventh	.....	.....	1	2	1	27	7	.....	38
Eighth	.....	.....	1	3	1	26	3	.....	34
	1	1	.....	.....	.....	.....	.....	.....	2
Night inspector	.....	.....	1	.....	.....	.....	.....	.....	1
Police court	.....	.....	1	.....	.....	.....	.....	.....	1
Detectives	.....	.....	1	.....	.....	6	.....	.....	7
Sanitary	.....	.....	.....	.....	.....	1	.....	.....	1
Total	1	1	10	20	7	175	24	.....	238

No. 2.—*Table showing time lost by sickness and other causes.*

Precincts.	Sick.	With leave.	Without leave.	Days.
First	572	253	3	828
Second	515	169	4	688
Third	551	132	.....	683
Fourth	268	89	.....	357
Fifth	845	168	18	1,031
Sixth	248	136	4	388
Seventh	410	245	2	657
Eighth	385	149	1	535
Detectives	21	49	.....	70
Sanitary	.....	.....	.....	.....
Total	3,815	1,390	32	5,237

No. 3.—*Table showing number of arrests in each precinct.*

Precincts.	Males.	Females.	Total.
First	1,287	444	1,731
Second	1,069	190	1,259
Third	928	137	1,065
Fourth	1,123	171	1,294
Fifth	3,107	557	3,664
Sixth	853	135	988
Seventh	1,695	278	1,973
Eighth	1,012	150	1,162
Sanitary	.....	.....	.....
Detectives	358	64	422
Total	11,432	2,126	13,558

No. 4.—*Table showing the ages of the males arrested, classified.*

Precincts.	From 10 to 20.	From 20 to 30.	From 30 to 40.	40 and over.	Total.
First	292	489	241	273	1,295
Second	348	328	180	216	1,072
Third	127	310	224	267	928
Fourth	281	343	211	277	1,112
Fifth	527	1,120	826	634	3,107
Sixth	259	296	141	157	853
Seventh	360	588	355	392	1,695
Eighth	230	368	201	213	1,012
Sanitary	.....	.....	.....	.....	.....
Detectives	114	116	71	57	358
Total	2,538	3,958	2,450	2,486	11,432

No. 5.—*Table showing the ages of the females arrested classified.*

Precincts.	From 10 to 20.	From 20 to 30.	From 30 to 40.	40 and over.	Total.
First	72	212	85	67	436
Second	56	50	23	39	168
Third	21	49	49	46	165
Fourth	26	61	39	47	173
Fifth	121	250	118	68	557
Sixth	29	65	23	19	136
Seventh	58	104	62	44	268
Eighth	43	49	37	30	159
Tenth	.....	.....	.....	.....	.....
Detectives	30	19	10	5	64
Total	456	859	446	365	2,126

No. 6.—*Recapitulation of offenses classified.*

Offenses against the person.	Males.	Females.	Total.
Assault	241	49	290
Assault and battery	832	188	1,020
Assault and battery with intent to kill	78	5	83
Assaulting policemen	13	.....	13
Attempt at rape	6	.....	6
Affray	180	37	217
Bastardy	1	.....	1
Bigamy	2	.....	2
Contempt of court	44	20	64
Carrying concealed weapons	103	2	105
Creating a nuisance	.....	7	7
Disorderly conduct	765	200	935
Deserters	17	.....	17

No. 6.—*Recapitulation of offenses classified*—Continued.

Offenses against the person.	Males.	Females.	Total.
Enticing prostitution	.....	4	4
Fighting in the streets	16	6	22
Fast driving	28	.....	28
Fugitives from justice	84	19	103
Fugitives from parents	9	7	16
Fugitives from Reform School	7	.....	7
Fugitives from Insane Asylum	1	.....	1
Intoxication	3,913	478	4,391
Intoxication and disorderly	355	108	463
Idle and incorrigible	9	1	10
Insanity	28	10	38
Indecent exposure	61	1	62
Indecent assault	13	.....	13
Interference with policemen	10	2	12
Keeping bawdy house	.....	11	11
Keeping gambling house	13	.....	13
Keeping disorderly house	3	7	10
Keeping policy shop	3	.....	3
Miscellaneous misdemeanors	177	62	239
Murder	10	.....	10
Mayhem	2	.....	2
Perjury	4	1	5
Profanity.	297	129	426
Picking pockets	19	2	21
Rape	7	.....	7
Rioting	6	.....	6
Resisting officer	18	2	20
Threats of violence	276	109	385
Vagrancy	551	260	811
Witnesses for the United States	113	14	127
Total	8,315	1,741	10,056

No. 7.—*Recapitulation of offenses classified.*

Offenses against property.	Males,	Females.	Total.
Arson	6	2	8
Attempt to steal	2	.....	2
Attempt at burglary	3	.....	3
Burglary	28	.....	28
Cruelty to animals	15	.....	15
Destroying private property	16	5	21
Destroying public property	4	.....	4
Embezzlement	20	.....	20
Forgery	15	.....	15
Fraud	3	4	7
Gambling	2	.....	2
Grand larceny	53	12	65
Highway robbery	20	.....	20
Malicious mischief	47	4	51
Obtaining goods or money by false pretenses	20	.....	20
Petit larceny	855	174	1,029
Robbery	12	.....	12
Receiving stolen goods	15	2	17
Suspicion	599	46	645
Trespass	82	2	84
Violation of United States revenue law	12	.....	12
Violation of United States census law	1	.....	1
Violation of District ordinances	1,287	134	1,421
Total	3,117	385	3,502

No. 8.—*Nativity of those arrested classified.*

Nativity.	Number.	Nativity.	Number.
United States, white	5,959	Turkey	2
United States, colored	5,644	Spain	2
Ireland	1,259	Italy	35
Germany	411	Austria	9
England	126	Russia	2
France	23	Sweden	6
Scotland	43	Greece	1
Norway	2	Wales	2
Canada	10	Persia	8
Denmark	2	Algiers	2
Hungary	2	Poland	3
Holland	2		
Switzerland	3	Grand total	13,558

No. 9.—*Table showing trades and callings of persons arrested.*

Occupations.	Number.	Occupations.	Number.
Artists	4	Grocers	68
Apprentices	7	Gardeners	43
Auctioneers	12	Gamblers	5
Agents	82	Gilders	2
Architects	2	Hackmen	78
Actors	4	Hotel keepers	18
Bootblacks	92	Hucksters	359
Boatmen	41	Housekeepers	545
Barbers	52	Hostlers	32
Barkeepers	101	Harnessmakers	25
Blacksmiths	149	Jewelers	25
Bricklayers	151	Junk-shop keepers	17
Brickmakers	10	Laborers	4,415
Butchers	137	Lawyers	56
Bakers	57	Livery-stable keepers	16
Bookbinders	7	Locksmiths	2
Brewers	8	Laundresses	14
Broommakers	13	Marketmasters	1
Basketmakers	2	Merchants	89
Boilermakers	7	Machinists	60
Builders	7	Musicians	26
Brokers	3	Millers	11
Brassfinishers	2	Messengers	21
Carpenters	265	Magistrates	2
Clerks	644	Mariners	41
Cigarmakers	44	Molders	28
Confectioners	9	Masons	11
Contractors	27	Ministers	3
Coachmakers	6	Newsboys	84
Cabinetmakers	24	Oystermen	6
Constables	20	Peddlers	65
Coopers	12	Printers	183
Clockmakers	8	Physicians	37
Cooks	48	Plasterers	110
Conductors	10	Prostitutes	726
Cattle brokers	3	Painters	283
Coachmen	7	Pavers	26
Dressmakers	18	Policemen	12
Dairymen	26	Patternmakers	3
Drovers	7	Plumbers	75
Dyers	1	Photographers	7
Druggists	6	Porters	22
Drivers	195	Paperhangers	8
Draughtsmen	3	Papermakers	2
Editors	3	Pumpmakers	1
Engineers	25	Restaurant keepers	51
Engravers	4	Ragpickers	22
Feed dealers	3	Riggers	5
Fishermen	30	Reporters	20
Farmers	125	Stenographers	2
Firemen	9	Soldiers	182
Gasfitters	2	Servants	736
Guides	3	Shoemakers	103
Gunsmiths	3	Silverplaters	3

No. 9.—*Table showing trades and callings of persons arrested*—Continued.

Nativity.	Number.	Nativity.	Number.
Stonecutters	84	Telegraphists	8
School teachers	11	Thieves	334
Sailors	167	Tinkers	2
Saddlers	5	Undertakers	8
Students	8	Unknown	642
Sailmakers	10	Upholsterers	24
Seamstresses	7	Vagrants	61
Storekeepers	61	Wheelwrights	10
Ship-carpenters	2	Watchmen	37
Schoolboys	481	Weavers	1
Schoolgirls	7	Waiters	123
Tailors	61	Whitewasher	1
Teamsters	10		
Tinners	66	Grand total	13,558

DISPOSITION OF CASES.

Number of cases in which fines were imposed		3,364
Amounting to	$34,225 05	
Amount paid in United States cases	4,726 53	
Amount paid in District of Columbia cases	7,300 12	
United States cases appealed	1,188 00	
District of Columbia cases appealed	7,494 00	
Dismissed		6,188
Surrendered to military authority		2
Surrendered to naval authority		1
Surrendered to Pennsylvania authority		2
Surrendered to Maryland authority		19
Surrendered to New Jersey authority		1
Surrendered to Virginia authority		4
Surrendered to New York authority		1
Surrendered to Reform School		66
Surrendered to United States marshal		49
Surrendered to insane asylum		21
Surrendered to workhouse		6
Surrendered to parents or guardians		54
Sent to jail		1,158
Sent to workhouse		1,784
Sent to House of Good Shepherd, Baltimore, Md		3
Sent to Reform School		7
Bonds to keep the peace		155
Bonds for grand jury		110
Bonds, personal		216
Appealed from police court		25
Not disposed of		109
Nol. pros. entered		128
Miscellaneous misdemeanors		83
Sentence suspended		2
Grand total		13,558

RECAPITULATION.

Total number of arrests	13,558
Males	11,432
Females	2,126
Married	4,520
Single	9,038
Could read and write	6,130
Could not read and write	7,428

Offenses against the person were committed by 8,315 males and 1,741 females.

Offenses against property were committed by 3,117 males and 385 females.

INCIDENTALS.

Attempted suicide	6
Accidents reported	323
Assistance rendered	284
Abandoned infants found	26
Broken lamps reported	174
Dead infants found	47
Dangerous holes in carriageways and sidewalks	106
Doors and windows found open and secured	176
Dead bodies found	14
Dead animals reported	445
Deaths where coroner was notified and no inquests held	20
Fire plugs reported out of repair	31
Fires attended	172
Filthy alleys reported	67
Horses and vehicles found and returned to owners	196
Hydrants out of repair	123
Inquests attended	29
Loads of coal weighed	1,171
Lost children restored to parents	195
Lodgers accommodated	7,461
Nuisances reported	177
Owners of insecure buildings notified	13
Pumps out of repair	157
Permits examined	94
Sudden deaths reported	45
Sewers in bad condition	46
Suicides reported	9
Sunstroke	1
Trees and tree boxes broken	1,121
Telegrams sent and received	48,434
Water notices served by police	7,017

APPENDIX K 2.

INVENTORY OF DISTRICT PROPERTY IN THE SEVERAL STATION HOUSES

FIRST PRECINCT STATION.

Batons, regulation	32	Hose, rubber	1
Blankets, pairs	29	Inkstands	2
Book-case	1	Ink, bottles	2
Blotters	22	Locks for cells	6
Brushes	19	Lanterns	2
Brooms	11	Map of District of Columbia	1
Bucket	1	Mattresses	26
Bedsteads	13	Mats, door	2
Bellows, insect	1	Mucilage, bottles	1
Books (record)	20	Mops, floor	4
Cartridges (pocket pistol)	350	Mirrors	3
Cartridges (army size)	568	Matches, boxes, dozen	4
Copy Laws United States	1	Oil, sperm, bottle	1
Copies Laws District of Columbia	2	Pens, boxes	2
Chamois skin	1	Pen-holders	9
Clock	1	Pen racks	2
Combs	3	Pistol-case	1
Chairs	28	Pistols, army,	30
Can (watering)	1	Pistols, army, holsters	30
Coffee boiler	1	Pistols, army, cartridge-boxes	30
Coal (tons)	21	Pistols, army, belts	30
Coal-hods	3	Pistols, Colt's pocket pistol, one to each man	30
Coal shovel	1	Pan, dust	2
Coal sieve	1	Pencils, lead	14
Desks	2	Pencils, slate	16
Handcuffs, pairs	2		

Pillows	26
Pillow-cases	80
Rulers, rubber	2
Slates	2
Sheets	60
Spreads	44
Soap, pounds	8
Stoves and pipe	5
Spittoons	21
Sponge-cup	1
Table	1
Towels	21
Tin cups	10
Tin basin	1
Telephone instrument	1
Wardrobes	12
Water-cooler	1
Writing desk	1
Window-curtains	24
Wash-stand	1
Wood, kindling, cords	1
Envelopes, stationery, &c., for use of station.	

SECOND PRECINCT STATION.

Wardrobes	4
Bedsteads	22
Mattresses	11
Pillows	11
Sheets	55
Pillow-cases	23
Towels	35
Blankets, double	12
Bed-spreads	11
Carpets	5
Matting, hall	1
Chairs	24
Tables	3
Window-curtains	10
Clock	1
Water-cooler	1
Writing-desk	1
Book-case	1
Gas drop-light	1
United States Statutes	1
Webb's Digest	1
Mirrors	2
Pistol case	1
Hose, set	1
Coffee boiler	1
Stoves and stove-pipe	4
Coal-scuttles	2
Brushes, all sorts	8
Coal sieve	1
Lanterns	4
Door-mats	3
Map of District of Columbia	1
Locks and keys	4
File-holders	4
Spittoons	10
Directory District of Columbia	1
Slates	2
Dress batons	14
Handcuffs, pairs	1
Comb	1
Dust-pan	1
Feather dusters	2
Water-buckets	2
Rogue's picture-case	1
Brooms	12
Insect bellows	1
Coal-shovel	1
Mops	6
Tin drinking-cups	7
Coal, tons	20
Wood, cord	¼
Pistols, army	21
Pistols, army, holsters	21
Pistols, army, belts	18
Cap pouches	7
Cartridges, army size	339
A small lot of stationery.	
Lot of stove-pipe.	
Lot of old zinc.	
Lot of books used as records.	

THIRD PRECINCT.

Army revolvers	20
Army revolver cartridge boxes	16
Army revolver holsters	20
Army revolver belts	20
Army revolver cartridges	320
Colt's revolvers, pocket	22
Colt's revolver cartridges	330
Bedsteads	12
Water-cooler	1
Musket rack	1
Stove	1
Office chairs	2
Mirrors	3
Map of Georgetown	1
Lantern	1
Step-ladder	1
Door mats	2
Window brush	1
Counterpanes	52
Coal-hods	3
Stove brushes	2
Tons of coal	26
Regulation day batons	20
Wardrobes	3
Blankets	48
Bed-room chairs	6
Drop lights	2
Pillows	17
Shoe brushes	10
Water pitcher	1
Window curtains	11
Small stove	1
Scoop shovel	1
Pine tables	2
Sponge	1
Mattresses	20
Hand hose	1
Waste basket	1
Brooms	2
Bellows, insect	1
Whisk brooms	5
Handcuffs, pairs	2

Spittoons	12
Arm chairs	13
Dust brush	1
Book-cases	2
Pocket lamp	1
Office desk	1
Sheets	72
Pine wood, cords	½
Towels	17
Revolver rack	1
Dust pans	1
Buckets	4
Sprinkling can	1
Slates	2
Office clock	1
Carpets	2
Feather duster	1
Mop handle	1
Tin cups	6
Hatchet	1
Roller towels	25
Pillow cases	45
Coal sieve	1
Lot books, stationery, &c.	

FOURTH PRECINCT.

Army revolvers	25
Army revolver holsters	26
Army revolver cartridge-boxes	25
Army revolver belts	25
Horse blankets	2
Saddles	2
Bridles	2
Wardrobes	3
Pistol case	1
Tables	4
Book-cases	2
Writing desk	1
Clocks	2
Office chairs	2
Carpets, yards	105
Mats	2
Waste baskets	2
Double bedsteads	10
Single bedsteads	4
Mattresses	22
Pillows	24
Spreads	42
Double blankets	42
Single blankets	3
Sheets	84
Pillow cases	36
Roller towels	18
Small towels	6
Common chairs	10
Arm chairs	19
Spittoons	21
Mirrors	3
Combs	5
Hair brushes	5
Clothes brushes	3
Pen-holders	6
Dark lantern	1
Lantern	1
Tin cups	6
Colt's pocket revolvers	24
Colt's metallic cartridges, boxes	6
Toilet soap, dozen	2½
Blacking brushes	3
Matches, gross	¼
Boxes blacking, dozen	1
Wisp brooms	6
Foolscap, ream	½
Letter paper, ream	½
Shoe brushes	4
Bottles kerosene oil	2
Coffee boiler	1
Coal shovels	4
Dress batons	20
Stoves	2
Furnace	1
Drop-light	1
Insect exterminator, bottles	11
Water cooler	1
Step-ladder	1
Buckets	4
Rake	1
Dust-brush	1
Hoe	1
Wall-brush	1
Whitewash-brush	1
Hose, feet	50
Curtains	8
Lot of books used as records.	
Gun-rack	1

FIFTH PRECINCT.

Badge brushes	3
Batons, dress	36
Bedsteads, double	14
Bedspreads	53
Blacking brushes	6
Blankets	57
Book-cases	2
Books in use and filled up	67
Brooms	9
Buckets	5
Carpets on rooms	5
Carpets in strips, yards	60
Chairs	43
Cell locks	7
Coal hod	1
Coal shovel	1
Clothes brushes	4
Dark lantern	1
Door mats	3
Dust brush	1
Dust pan	1
Feather duster	1
Hair-brushes	4
Hair-combs	6
Handcuffs	3
Inkstands	2
Looking-glasses	4
Lanterns	1
Map of District	1
Mattresses	27
Office clock	1
Pen rack	2

Pillows	48
Pillow-slips	81
Pistol-rack case	1
Powder-bellows, insect	1
Revolving chairs	2
Revolvers, Colt's improved	29
Rubber hose, feet	40
Rubber rulers	2
Sheets	98
Shovels	1
Scissors	1
Slates	3
Sign for station	1
Spittoons	22
Sponges	2
Sponge cups	2
Stoves	3
Tables	1
Telephone instrument	1
Tin basins	2
Tin cups	8
Tin coffee-boiler	1
Towels, roller	28
Towels, hand	7
Wardrobes, double	7
Wardrobes, single	20
Waste baskets	2
Water-cooler	1
Writing-desks	4
Window-shades	11
Whisk brooms	8
Wardrobe, old	1
One Directory for 1880.	
Copy of Revised Statutes.	
Webb's Digest and District Laws.	
Small lot of stationery for daily use.	
Small lot of toilet articles.	
Lot of old books, &c.	
Army revolvers, Colt's	37
Army revolver holsters	37
Army revolver belts	37
Army revolver cartridge-boxes	37
Cartridges for revolvers	829

SIXTH PRECINCT.

Set of office books and records	1
Book-cases	2
Double wardrobes	2
Single wardrobe	1
Chairs	40
Chair, revolving	1
Carpets	5
Stoves	4
Stove shovels	5
Coal shovel	1
Coal sieve	1
Coal hods	6
Double beds	11
Single bed	1
Mattresses	24
Sheets	106
Spreads	24
Pillows	24
Pillow-slips	71
Double blankets	42
Looking-glasses	3
Spittoons	16
Window-shades	7
Towels, hand	8
Towels, roller	18
Round tables	2
Clock	1
Desks	3
Water buckets	3
Slop buckets	2
Water-cooler	1
Bath tub	1
Sprinkler	1
Brooms	4
Door mats	4
Wheelbarrow	1
Grass scythe	1
Step-ladder	1
Dark lantern	1
Cell locks	6
Handcuffs	2
Tin cups	6
United States Statutes	1
Map of District	1
Ream of foolscap	1
Ream of letter paper	½
Clothes brushes	4
Boxes blacking	10
Shoe brushes	11
Dip brushes	2
Combs	2
Badge brush	1
Wisp brooms	3
Matches, boxes	43
Cakes of soap	15
Maps	3
Slates	3
Dress batons	21
Barrel of lime	1
Colt's Army revolvers	24
Colt's Army cartridges	450
Colt's Army belts	24
Colt's Army holsters	24
Colt's pocket revolvers	24
Colt's pocket cartridges	300
Telephone instrument	1
Pistol case	1
Saddles, bridles, and halters	2

SEVENTH PRECINCT.

Double bedsteads	15
Single bedsteads	3
Hair mattresses	32
Shuck mattresses	3
Sheets	95
Double blankets	66
Spreads	59
Pillows	33
Pillow-cases	92
Roller-towels	44
Hand-towels	12
Wardrobes	11
Case for arms	1
Writing-desks	4
Office chairs	2
Cane-seat chairs	10

Arm-chairs	14
Bedroom chairs	14
Telephone	1
Stoves	4
Round table	1
Window-curtains	13
Spittoons	20
Looking-glasses	4
Book-case	1
Rubber hose, feet	60
Water-cooler	1
Water-buckets	2
Tons of coal	28
Cords of wood	½
Shovel	1
Shovel, stove	1
Coal-hods	2
Coffee-boiler	1
Pen-holders	6
Lead-pencils	12
Boxes of pens	1½
Erasers	3
Pen-racks	3
Inkstands	4
Sponge-cups	2
Sponges	3
Ream foolscap paper	¼
Ream letter paper	¼
Ream note paper	¼
Box of envelopes	1
Large envelopes	50
Bottle of ink	¾
Telephone book	1
Time-book	1
Property-book	1
Receipt-book	1
General-order book	1
License book	1
Blotter	1
Book of assets	1
Directory for 1880	1
Copy United States Statutes	1
Bottle of mucilage	1
Pairs shears	2
Blacking brushes	5
Boxes blacking	18
Cakes toilet soap	37
Double slates	2
Rulers	2
Waste-baskets	2
Tin cups	9
Drop-lights and fixtures	2
Clock	1
Paper-weights	2
Small brooms	10
Large brooms	5
Combs	3
Hair-brushes	6
Dust brush and pan	1
Scrub-brushes	3
Mop	1
Tin wash-basin	1
Floor-mats	2
Lanterns	2
Yards of oil-cloth	5
Yards Brussels carpet	24
Yards ingrain carpet	54
Yards ingrain carpet (old)	50
Lounge	1
Manuals	38
Day batons	38
Night batons	38
Regulation batons	21
Colt's pocket revolvers	38
Colt's pocket revolver cartridges	300
Army revolvers	28
Army cartridge-boxes	25
Army cap-boxes	3
Army belts	28
Army holsters	28
Army cartridges	725
Army saddles	7
Army bridles	7
Army halters	6
Army halter-straps	6
Army blankets	6

EIGHTH PRECINCT.

Iron bedsteads, double	13
Iron bedstead, single	1
Wooden bedstead	1
Sheets	90
Counterpanes	28
Pillows	40
Pillow-cases	65
Mattresses	29
Roller-towels	4
Hand-towels	18
Carpets	3
Oil-cloth mats	3
Double wardrobe	1
Single wardrobe	1
Hemp door-mats	3
Writing-desks	4
Tables	3
Book-case	1
Lantern	1
Inkstands	4
Blankets, pairs	50
Pen-racks	3
Tin cups	4
Sprinkling-hose	1
Handcuffs	4
Dress batons	30
Night batons	33
Short day batons	34
Patrolmen's badge	29
Sergeant's badges	4
Lieutenant's badge	1
Fire keys	34
Whistles	34
Pocket-lamps	10
Colt's pocket revolvers	33
Cartridges for same	465
Mirrors	3
Wood-seat arm-chairs	31
Wood-seat plain chairs	13
Cane-seat arm-chairs	2
Revolving arm-chairs	3
Lounge	1
Clocks	2
Pistol-case	1
Law books, set	1
Lot books filled up.	
Stoves	2
Pokers	2

Rulers	3	Blankets	10
Coffee boiler	1	Head-halters	10
Coffee-cups, tin	6	Saddle-bags	10
Stove brush	1	Coal-scuttles	2
Small stove	1	Shovels	2
Combs and brushes	5	Slates	3
Pitcher and bowl	1	Feather-duster	1
Water-coolers	2	Shoe-brushes	4
Buckets	5	Lamps	2
Spittoons	34	Hatchets	2
Mop	1	Wash-stand	1
Dust-brush	1	Coal, tons	33
Dust-pan	1	Wood, cord	½
Drop-light	1	Furnace	1
Wood axe	1	Police-belts	34
Brooms	5	Army revolvers	33
Brooms, whisk	6	Cartridge-boxes	33
Window-shades	16	Holsters	33
Telephone instruments	2	Belts	33
Saddles	11	Cartridges	300
Bridles	9	Gun-rack	1

Also a quantity of stationery, blacking, soap, matches, &c., for the use of station.

APPENDIX K 3.

REPORT OF THE SANITARY OFFICER.

DEPARTMENT METROPOLITAN POLICE,
SANITARY OFFICE,
Washington, D. C., September 1, 1880.

SIR: I have the honor to submit herewith a report of the operations of this office for the year ending 30th June, 1880:

The daily duties of this office are principally to provide for the sick and poor, especially those who have no friends and are compelled to go to hospital for treatment, which includes not only the indigent sick poor and insane persons residents of the District of Columbia, but many transient sick and insane persons who are found in our midst in a destitute and deplorable condition, belonging to the different States and Territories. Each case is carefully examined into, and if found to be a fit subject for treatment, the patient is promptly conveyed to the hospital which he or she is entitled to admission under the law. In connection with the removal of these sick and insane cases to the several hospitals and asylums, I wish to call attention to the great amount of service performed by the ambulance during the past year. It will be borne in mind that a great many of those cases are found to reside a great distance from the hospital to which they are assigned, some even in the extreme end of the county, and it frequently occurs that a patient is removed in the morning from a certain locality and another reported from near the same place in the afternoon; each case is generally reported to be urgent and consequently must be removed without delay. It will thus be perceived the hard work the horses attached to the ambulance, as well as the driver, have to perform, traveling often without even having time to partake of food; frequently, after having worked hard all day, there is an urgent call at night, owing to accidents, &c., and the ambulance is telephoned for, and brought into service, as though it had done no duty during the day. The consequences are that the horses break down from overwork, notwithstanding that the best of care is taken of them, and have to be replaced by others. I therefore suggest that a light single-

horse wagon, suitable for conveying such sick patients as are able to sit up ("though unable to walk"), and those residing outside of the city limits, be provided for the use of the office; it will thus be the means of relieving the overworked ambulance team, and preserve them for years, and therefore would be a matter of economy instead of expense to the District; moreover the ambulance, although a most complete and comfortable mode of conveyance within the city limits over smooth pavements, is too cumbersome and heavy for two horses over a country road.

In my last annual report I referred to the fact that a number of non-resident insane paupers were found by the officers of this department wandering about the streets, and that under the law the District was compelled to defray the expenses of their support in the Government Hospital for the Insane until their legal place of residence is ascertained, a matter which is sometimes impossible, owing to the fact that many of them are not possessed of mind enough to give any account of their friends or place of residence. Those who can, are conveyed under escort to their homes, while the others are retained at the asylum, both at the entire expense of the District. I therefore suggest that Congress be requested to make special appropriation out of the United States Treasury to defray both the cost of their support while in hospital as well as transporting them to their homes, as they have no claim whatsoever upon the District, inasmuch as they belong and are residents of the different States.

This office is also charged with furnishing transportation to persons who come here to this city in hopes of getting employment, or who have some claim against the government; for instance, soldiers and widows of soldiers applying for pensions, and who think by coming to Washington they will accomplish that which they have for years failed in, so they manage in some way to get means enough to bring them here, thinking they will succeed in obtaining what they think is justly due them, and in case they should not, that the government which they or theirs served so faithfully would at least give them enough to enable them to return to their homes; subsequently they find that they not only fail to obtain the object of their mission, but that the general government has made no provision whatsoever with which they could be sent to their homes. The result is they apply, like all others, to the police department for assistance, and as they are not "tramps," and cannot be classed as such, "being simply subjects of adverse circumstances," they must be treated with the consideration due to humanity, and therefore it has been the practice of this office to extend to those people, or at least to the most distressed ones among the number, relief by way of transportation to or towards their homes. Owing to the small amount appropriated, relief cannot be extended to one applicant out of ten. The cost of such transportation is borne by the District, though the beneficiaries are residents of the different States, and with few exceptions have some claim on the general government, inasmuch as the greater number of them have been soldiers or the widows or orphans of soldiers who served in the late war. I therefore suggest that the amount be increased to $5,000, as there is no money appropriated by Congress which does more good in relieving persons in distress, than that expended in transporting this class of worthy people to their homes.

I again request that the attention of Congress be called to the fact that section 248, page 947, Revised Statutes of the United States, provides that affidavits as to the insanity and indigency of the resident insane of this District must be made before a judge of the criminal or circuit court, or before a justice of the peace of the District of Columbia, consequently

there is no officer connected with the District Government empowered to take such depositions except the major and superintendent of police and the Comissioners, "the latter overburdened with other duties, and not having the time to attend to such matters"; and in the absence of the former, the acting major and superintendent has not the power to administer such affidavits. I therefore suggest that, in order to tacilitate the duties of the office, the section referred to be amended by inserting the words, "or notary public," after those of justice of the peace.

I also wish to call attention to the urgent necessity for the erection in this District of an asylum where confirmed inebriates could be treated. It is known that the Government Hospital for the Insane is closed against those whose temporary insanity is the immediate effects of alcohol. As there is no other hospital or institution within the District where they could be sent and confined against their will, the question which concerns this whole department is, what shall we do with them? Invariably it occurs that, after all the efforts on the part of their friends to care for or reform them have faiied, they are turned over to us to dispose of them in some manner. Cases of this kind have been frequently sent from this office to the Providence Hospital, Freedmen's Hospital, and to the Washington Asylum Hospital, where they were kindly received and treated, but upon recovering from their drunken condition they demanded their liberty, which could not be denied them, and have been found by the officers of the department the next day in as bad and deplorable condition as they were when sent to the hospital a few days before. Some of those unfortunate creatures whom I have known are respectably connected, whose friends have used all the means in their power to restore them to manhood, who had to be arrested next day after their release from the workhouse and sent down for another term of ninety days, and thus spend their whole life, or nearly so, a prisoner in that institution.

It might be said, why not send them to the other hospitals and treat them there; but to one of any experience such a proposition is impracticable, for the reason that it would be an injustice to other patients in such hospitals to put a man suffering with *mania a potu* in the same ward with them, more especially with patients suffering with diseases of such a grave nature as typhoid fever, pneumonia, and nervous diseases, &c. Therefore, humanity demands that there should be some separate institution wherein these poor unfortunate people could be cared for, as the greater number of suicides, if not all, which occur in our midst are among those suffering from the effects of alcohol, and whose lives would be saved if the persons could be confined in an institution of this kind until reason could be restored, and not only that, but many of them would in a few years be remodeled, so to speak, and return to their position in society and become not only respectable and honorable but useful citiizens.

The following statement will show the number of sick and destitute persons sent to the several hospitals and asylums, and the nativity of the same; also the number of non-resident paupers furnished with transportation towards their homes:

Number of sick and destitute persons sent to the several hospitals and asylums during the year ending June 30, 1880.

To Washington Asylum	327
To Freedmen's Hospital	313
To Providence Hospital	144
To Government Hospital for the Insane	73
To Children's Hospital	8
To Columbia Hospital	7
To Woman's Christian Association Home	2
Total	874

Nativity of persons sent to hospitals and asylums for the above period.

United States	595	Belgium	4
Ireland	168	Holland	4
Germany	58	Turkey	3
England	13	Greece	3
Canada	12	Russia	2
France	11	Spain	1
Total			874

The number of non-resident paupers furnished with transportation to other cities, procured from the Commissioners of the District of Columbia, was 372.

The number of cases removed in police ambulance from the scene of accident, and from the several dispensaries, to their respective homes, averaged about four per week.

Very respectfully submitted,

JOHN CONNELL,
Sanitary Officer Metropolitan Police.

WM. G. BROCK,
Major and Superintendent.

APPENDIX K 4.

ESTIMATES OF EXPENDITURES.

Estimates for fiscal year ending 30th June, 1882.

Major and superintendent	$2,610 00
Captain and inspector	1,800 00
Secretary and property clerk	1,800 00
Clerk	1,500 00
3 surgeons, at $450 each	1,350 00
6 detectives, at $1,320 each	7,920 00
10 lieutenants, at $1,200 each	12,000 00
20 sergeants, at $1,140 each	22,800 00
7 acting sergeants, at $1,080 each	7,560 00
120 privates, class 2, at $1,080 each	129,600 00
73 privates, class 1, at $900 each	65,700 00
16 station-keepers, at $516 each	8,256 00
8 laborers, at $420 each	3,360 00
3 telephone operators, at $780 each	2,340 00
1 messenger	900 00
1 messenger	360 00
2 drivers, at $300 each	600 00
Ambulance driver	600 00
Major and superintendent mounted service	360 00
Captain and inspector mounted service	240 00
50 lieutenants, sergeants, and privates, mounte service	12,000 00
Total pay-roll	283,656 00

Rent of station-houses and headquarters	$5,960 00
Fuel	1,500 00
Repairs to station-houses	1,500 00
Miscellaneous expenses, including stationery, gas, telegraphy, ice, washing, meals for prisoners, photographs, printing and binding, rent of telephones, expenses of ambulance and team, expenses incurred in detection and prevention of crime, for furniture and repairs to same, for arms and equipments, and contingencies	7,384 00
In all	300,000 00

L.—REPORT AND ESTIMATES OF THE TRUSTEES OF PUBLIC SCHOOLS.

OFFICE OF THE BOARD OF TRUSTEES
OF PUBLIC SCHOOLS,
Franklin Building, Washington, D. C, September 24, 1880.

GENTLEMEN: The board of trustees, in response to your communications of July 14 and August 16, requesting "estimates of the necessary expenses of conducting public schools for the fiscal year ending June 30, 1882, with such information and suggestions as to their present condition and wants as you may deem important," has the honor to submit the following report and recommendations, with an estimate of the amount that will be required for the support of the public schools in the District of Columbia for the fiscal year ending June 30, 1882.

The number of youth of school-age (6 to 17 inclusive) in the District of Columbia, according to the census of 1878, was, white, 26,426; colored, 12,374; total, 38,800. The whole number of pupils enrolled in the public schools for the school-year ending June 30, 1880, was, white, 16,914; colored, 9,505; total, 26,419; increase over the enrollment of last year, 1,289.

The average number of pupils enrolled in the public schools for the school year ending June 30, 1880, was, white, 13,978; colored, 7,602; total, 21,580. The increase over last year was 1,191.

The number of teachers employed for the school-year ending June 30, 1880, was: In the white schools, 281; in the colored schools, 152; total, 433.

The total payments for the support of the public schools for the school-year ending June 30, 1880, were $438,567.42.

The number of school-rooms owned is: For white schools, 166; for colored schools, 98; total, 264.

The number of school-rooms rented is: For white schools, 93; for colored schools, 27; total, 120.

An appropriation for two buildings of twelve rooms each—one for the white schools and one for the colored schools of Washington—has been made, and the work on them is already commenced, and will be finished by the end of the present school-year.

Estimating the average cost of a site and school building of twelve rooms at $40,000, the following is the estimated cost of buildings needed to supply the place of the rented rooms:

For white schools: In Washington, $281,250; in Georgetown, $7,500; in the county, $15,000; total, $303,750.

For colored schools: In Washington, $45,000; in the county, $11,250; total, $56,250; grand total, $360,000.

ESTIMATE OF EXPENSES FOR THE SUPPORT OF THE PUBLIC SCHOOLS FOR THE FISCAL YEAR ENDING JUNE 30, 1882.

Salaries of teachers and superintendents	$333,000 00
Wages of janitors and sweeps	27,000 00
Rent	28,000 00
Fuel	10,000 00
Repairs	20,000 00
General supplies	15,000 00
Insurance	2,500 00
Printing	4,000 00
Secretary and clerks	2,000 00
Miscellaneous expenses	5,000 00
Interest on Linthicum loan	2,400 00
Total for current expenses	448,900 00
For buildings and sites	100,000 00
Grand total	548,900 00

We recommend that the $100,000 for school buildings be distributed as follows:

For the purchase of site and erection of school building, Second Division	$47,000
For the purchase of site and erection of school building, Fourth Division	10,000
For the purchase of site and erection of school building, County	8,000
For the purchase of site and erection of school building, colored schools, Washington and Georgetown	35,000

We call attention to the fact that the erection of the Force and Peabody buildings has enabled us to release five rented rooms in the first division and seven rented rooms in the third division.

A most serious question, demanding immediate attention, is the accommodation of the high-schools for the girls and boys of the white schools of the District. There will be during the present school-year about 250 pupils in these schools, and at least 300 during the following year. They have no buildings designed especially for their use, and with this year will outgrow their present inconvenient and crowded quarters in the third stories of the Seaton and the Franklin buildings. It would not be economical, and is not practical, to supply this want by renting. Suitable buildings for this purpose cannot be rented. We have therefore to recommend most urgently that the old Washington school fund, amounting to $70,630.49, now invested in 3.65 District of Columbia bonds, be appropriated to the erecting of a high-school building for the girls and boys of the white schools of the District; and that a part of square 446 be used as a site for the same. The District now owns this site, and its situation is excellent for the accommodation of a class of pupils coming from all parts of the District. It is centrally situated east and west, and, as the city is rapidly extending north, it will soon become central north and south. The street railways passing by and near it make it accessible to the more distant parts of the city, and would be a great convenience in bad weather. These are very important considerations in locating a building which, from the nature of the school to occupy it, must receive pupils from all parts of the District.

Very respectfully,

B. G. LOVEJOY,
Chairman Fiscal Committee.
CHARLES M. MATTHEWS,
President Board of School Trustees.

Attest:
JOHN H. BROOKS, *Secretary.*

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

M.—REPORT OF THE COMMISSIONER AND INTENDANT OF THE WASHINGTON ASYLUM.

WASHINGTON ASYLUM,
Washington, D. C., September 11, 1880.

GENTLEMEN: In compliance with your order of the 16th ultimo, I transmit the following report relative to the management of the Washington Asylum during the last fiscal year, together with recommendations and estimates.

On October 1, the intendant having resigned, the office of intendant was consolidated with that of commissioner, and the duties of both positions have since devolved on me.

During the past session of Congress, by a provision of the sundry civil appropriation bill, and largely owing to the untiring efforts of the president of your board, the buildings and grounds formerly used by the United States Army and Navy for magazine purposes were transferred to the District for the benefit of the asylum; and, the War and Navy Departments having removed all United States material, the property has been formally surrendered. The addition thus obtained consists of between twenty and thirty acres of arable land, five large brick magazines, three small brick dwelling-houses, one large shell-house, some minor out-buildings, and a small, substantial wharf.

At the beginning of the year the almshouse branch of the asylum was in a most deplorable sanitary condition. The building, which was erected twenty-five years ago, had no proper means of ventilation and no bathing facilities. The dining-rooms, kitchens, laundries, and bake-house were all located in the basement, and their fumes rising through the halls and combined with the vitiated air of overcrowded dwelling-rooms, rendered the atmosphere of the building at times almost unbearable. During the year a new one-story brick building has been erected, containing a kitchen 24 by 20 feet; a bakehouse 20 by 17 feet, together with an oven 11 by 8 feet; a laundry 20 by 15 feet, and an engine-room 16 by 10 feet. In the old building transoms, 75 in number, have been placed over the doorways, and the stairways being used as ventilating shafts and cowls being set on the roof, thorough ventilation has been obtained. Many of the rooms had no doors, while the doors of others were so rotten as to be practically of no value. Twenty-five new single and four pairs of new double doors have been put in, and new studs, frames, sills, &c., have been made throughout the building wherever needed. The water and sewer pipes have been thoroughly overhauled and repaired; several of the old brick floors have been taken up, concrete foundations put in, and the bricks laid in and jointed with cement. Two-and-a-half inch water-pipes with regulation hose connections on every floor have been run on each side of the building from basement to roof, and the water tank at the top of the building has been rebuilt. The old kitchen has been renovated and made into a store-room. The old male prisoners' dining-room has been changed into a coal-vault. The old laundry, or "wash-cell," has been made into a bath-room for the male paupers, and the old bakery into a bath-room for the female paupers. Each room contains three bath-tubs, a 60-gallon copper boiler, and a water-closet. Steam-pipes from the engine-room connect with each tub and boiler. Steam-pipes have also been carried to the employés' laundry, connecting with soapstone wash-tubs, to the employés' bath-room, connecting with the bath-tub there, and to the employés' kitchen, connecting with a 60-gallon copper boiler.

The new kitchen contains four 69 and two 54 gallon iron boilers, which are used for making tea, coffee, and soup, and for cooking vegetables. There is no fire in the kitchen, and the boilers, which have hollow walls, are heated by steam. In the new bakery is a 15-gallon boiler of the same style and heated in the same manner as the boilers in the kitchen. The large oven is built on a far more modern, convenient, and economical plan than the old one. In the laundry are nine new soap-stone wash-tubs, a 60-gallon clothes boiler, and a small stove for heating sad-irons. The water for the wash-tubs and boiler is heated by steam from the engine-room. In the engine-room is a twelve-horse power tubular boiler, a steam-pump for forcing water to the tank on the top of the main building, and a large steam-box used to destroy vermin and the germs of disease in clothes, beds, and bedding.

Under the old system there was in use a brick kitchen range containing three large fire-pots, a small furnace in the bakehouse, a stove for heating water and another for heating irons in the asylum laundry, and a large stove for heating water and irons in the employés laundry. Even then it was always difficult and sometimes impossible to obtain a sufficient supply of hot water for ordinary house-cleaning purposes, while the building was without bath-rooms. Under the present system, with the exception of two small stoves required for heating irons, one fire-pot furnishes all the heat necessary for kitchen, bakehouse, laundries, bath-rooms, steam-box, and steam-pump, and an abundant supply of hot water for the whole house. The saving of fuel for the purposes named is *at least sixty per cent.*

Since these changes, all prisoners and paupers are required to take a bath at least once a week, unless excused by the physicians. The female prisoners have been uniformed. Upon being received at the workhouse they are required before going to their quarters to take a bath and change their clothing. The clothing, unless especially clean, is placed in the steam-box and each dress is afterwards labeled and put away to be delivered to its owner at the expiration of the term of imprisonment.

Outside the buildings many changes and improvements have been made. With lumber taken from the old wharf 600 feet of trunk 2 feet square was constructed and laid in the gully which ran north and south through the asylum grounds. The gully was afterwards filled to a level with the surrounding ground, and about three-quarters of an acre of land was thus reclaimed, while the appearance of the grounds was much improved. A piece of land contiguous to this gully, which contained so many springs as to be of little value, has been thoroughly drained and placed in good, arable condition by the construction of 2,400 feet of blind ditch, 3 feet wide.

A new road has been constructed 400 feet long and 16 feet wide, with broken-brick base and gravel surface, leading from stable-yard to ice-house. Three hundred feet of six-inch terra cotta sewer-pipe, with two manholes, has been laid. One hundred and seventy-five feet of three-inch terra cotta pipe has been laid from milkhouse to pond. The pond has been cleaned out and paved. Eighty-six feet of three-inch terra cotta pipe has been laid from the pond to the stable-yard, connecting with watering trough and pig-pens, thus furnishing an ample supply of running water for all stock. Three hundred and eighty feet of brick retaining-wall has been built. Two hundred and forty feet of board fence has been rebuilt, as much as possible of the old material being used. Three hundred and thirty-four feet of new board fence has been built. Two hundred and thirty-five feet of rotton paling fence has been replaced with new. A large piece of waste land, which could not at

present be utilized in any other way, has been inclosed and made into a hog-range by the construction of 450 feet of temporary fence from old material. A chicken-house, 20 by 12 feet, has been erected, and an addition to the hospital kitchen 12 by 8 feet. An addition has been made to the dispensary, consisting of sleeping-room, bath-room, and dining-room, for the resident physician and student.

Gas has been introduced into the house occupied by myself, and into the dispensary.

Thirty-nine shade trees have been planted in the hospital grounds. One thousand strawberry plants have been set out. Large quantities of vegetables were raised on the small piece of land available, but, being used from day to day as food for the asylum inmates, no correct estimate could be made.

During the year 5,386 pounds of pork was killed from time to time, and roasted fresh for the tables of the inmates, thus furnishing an agreeable variation from the somewhat monotonous diet. This pork was raised on the place, the hogs being fed on the refuse which, until after my appointment as Commissioner of the Asylum, three years since, was given away. Save in the purchase of the original stock, the hogs have been absolutely no expense to the District. The pork was of the first quality. There are now on the place sixty-nine hogs and pigs, of the improved Berkshire breed.

Six hundred and sixty-five coffins have been made, of which 58 were used for the burial of persons dying at the asylum and 607 have been furnished throughout the District on orders from the health officer. A horse, wagon, and paid driver are furnished for the delivery of these coffins and the burial of indigent persons dying outside of the asylum. There have been 499 interments in the potter's field. I wish to call your special attention to the fact that these expenses, though borne by the asylum, are properly chargeable to the health department.

From November 17, 1879, to July 1, 1880, 686 pairs of shoes and 12 pieces of harness were repaired by prison labor at the work house. In the workhouse is a sewing-room, containing one machine, in which all clothing for male prisoners is manufactured by some of their number. In the asylum all women who are able are employed in cooking, scrubbing, sewing, washing, ironing, &c. A part of the paupers have made their own clothing. The sewing-room is in charge of a competent woman. There is one sewing-machine, and in this room have been made all bedding and clothing necessary for the use of inmates other than that mentioned above.

Labor was furnished the parking commission for the transplanting of 5,000 trees in the nursery. Three hundred and ninety-one days' labor of a varying number of prisoners and forty-one days' labor of overseers were furnished the Navy Department in removing stores from the old navy magazines.

The following amount of labor has been furnished the Engineer Department for improvements on the public streets: Two thousand and twenty cubic yards of excavating at Lincoln place; 2,082 days prisoners' labor and 165 days overseers' labor graveling E street, southeast, between Eleventh and Nineteenth streets; 1,406 days prisoners' labor, 172 days overseers' labor, and 102 days cart-and-horse labor, for macadamizing a portion of H street, northeast.

When, in October, I assumed immediate control of the asylum, there were in workhouse, poorhouse, and hospital a large number of children, both colored and white, varying in age from four to fourteen years. It was evident that, though some of these children could be brought to-

gether daily for a few hours of instruction, it was impossible, for the greater portion of the day, to keep them under proper surveillance, and, their surroundings being mainly evil, the chances were that they would grow up idle and vicious. Arrangements having been made with the managers of different institutions, twelve colored children were transferred to the Home for Colored Women and Children, one colored boy to the Reform School, and six white children to the Industrial Home School. At these institutions they receive a good common-school education and proper moral training, and become skilled to a greater or less degree in mechanical or other useful labor, and, in due course of time, so f r as possible, homes are found for them, thus giving them an opportu ity to become industrious and respectable members of society. There are now in almshouse and hospital twenty-two children, most of whom are infants or so young that they cannot yet be transferred to these homes; but should they remain in the asylum until old enough, the same course will be pursued with them as with those above mentioned.

There are in the workhouse at the present time twenty-four minors from six to sixteen years of age. Many of them are without home or friends. A suggestion has been made, which I know has the earnest sanction and support of the members of your board, that a public school be established at the workhouse for the benefit of these children. This plan will without doubt be carried out at an early day. The longest term of commitment in these cases is ninety days, and the charge is generally vagrancy. When their terms expire they go out only to be recommitted. Under the new code, as passed by the lower House of Congress, it would be easy to retain them after the expiration of their terms, and by compulsory education make an effort, at least, to save them from lives of degradation. In this connection I desire to say that three years of experience with the pauper and criminal classes, and careful observation of them, have forced me daily toward the conclusion that if we desire to reduce the percentage of pauperism and crime, our main efforts must be directed towards rescuing the children with whom the tendency of birth and circumstances is downward rather than upward. I believe that a liberal and judicious expenditure in this direction would in the end be a saving to the community at large. Should the school referred to be established, and the experiment be as successful as I hope it may be, I shall propose that the two Navy magazines be fitted up, one as a school room and the other as a dormitory for these boys, who would thus be isolated from the evil surroundings of the workhouse. Another step, wholly dependent upon the success of the first, should be the changing of another magazine building into a workshop, the employment of proper persons, and the daily instruction of such boys as show an aptitude therefor, in mechanical occupations.

Able-bodied women are frequently admitted to the asylum whose only claim to support at the public expense is the fact that, having a babe at the breast or one or more small children, often illegitimate, they are unable to obtain employment. Many of these women have little self-respect, and less ambition. Upon entering the asylum they leave the world with its cares and responsibilities behind them. To retain them permanently is a moral wrong to them and unjust to the working people who must maintain them. Should one of the magazine buildings be properly arranged as an infants' or children's asylum, such women could be informed that, while the District would not support them in idleness, it would, upon proper surrender, take care of their children, and thus give them an opportunity to earn a respectable livelihood, the children

to be returned to their parents upon the production of satisfactory evidence that they might properly be intrusted with the care of them. In my opinion the benefit to be derived from adopting the plans proposed above, would more than compensate, viewed from a humanitarian and moral standpoint, for the increased expenditure necessary.

As the United States Senate will probably consider and pass, during the coming session, the new code for the District of Columbia, it seems proper that I should renew my recommendation for a provision of law by which old and frequent offenders may be required to give bonds for their future good behavior, and in default thereof be sentenced by the judge of the police court to imprisonment for a term not less than three months nor more than three years. The following table, taken from the report of the intendant for the fiscal year ending June 30, 1879, gives the names of frequent offenders and the number of days they have spent in the workhouse in a series of five years:

Names.	Color.	Periods of confinement.				
		1875.	1876.	1877.	1878.	1879.
		Days.	*Days.*	*Days.*	*Days.*	*Days.*
Mary Nuttrell	White	330	240	210	285	240
Teresa Johnson	do	220	250	240	254	278
Maria Marino	do	280	120	90	225	172
Fannie Belmont	do	290	90	60	150	311
Bridget Welsh	do	230	180	180	357	226
Julia Banks	Colored	90	260	150	224	47
Mary Keenan	White	240	80	150	225	150
Henrietta Bruce	Colored	200	90	75	60	.....
Hannah Reeves	White	150	160	240	60	7
Mary Welsh	do	140	220	225	209	187
Jennie Corcoran	do	100	217	127	330	120
Agnes White	do	170	120	223	283	268
Clara Williams	Colored	20	240	225	180	187
Kate White	do	.....	197	120	195	186
Mike Lanhady	White	.....	.....	.....	247	260
William Streets	Colored	.....	.....	.....	315	285
William McDonald	White	.....	.....	.....	180	247
Lewis Perkins	Colored	.....	.....	.....	270	150
Henry Hayman	White	.....	.....	.....	150	117
Richard Nolan	do	.....	.....	.....	225	75
Sam. Matthews	Colored	.....	.....	.....	187	231
Norman Carter	do	.....	.....	.....	165	120
S. Robinson	do	.....	.....	.....	240	90

It should be borne in mind that many of the prisoners have also spent a considerable portion of their time in jail. While the reformation of most of them seems hopeless, it certainly is impossible while the longest term of imprisonment is but ninety days. With a long term many of them might be taught useful trades or occupations. In my report of 1878, I referred to this subject as follows:

> It will be seen that more than three-fifths of the year is spent by them in the workhouse. These people are depraved and have lost all sense of pride and shame. Immediately upon their release from either place of confinement they return to their old haunts, and rejoin the gangs of low character which infest certain portions of our city, only to be arrested within a few days for violation of law and to receive another sentence of brief imprisonment. Larger workshops than we now have could then be established and the persons be taught useful trades. Discipline and enforced abstinence from vicious habits would do much in the way of reform, while the possession of a trade, whereby they might earn an honorable and comfortable living, would have a tendency to waken their dormant self-respect. They could be stimulated to industry, as is done in other institutions, by the promise, on conditions, of a certain proportion of their earnings over the amount necessary to their maintenance.

I renew also my recommendation of the purchase of 300 acres of land on the east side of the Branch for the use of the asylum, and refer to

my report of last year in which are set forth the reasons why this acquisition should be made.

Last year I recommended an appropriation of $16,000 for the construction of a new wing to the workhouse. Ten thousand dollars only was allowed, but this sum proves inadequate for the completion of the building and furnishing for occupancy, though the plans were materially modified. I have therefore estimated $5,000 as necessary to finish and furnish the building.

The workhouse and asylum are each heated, at the present time, by two furnaces. The quality and quantity of heat are unsatisfactory, while the expenditure for fuel and repairs is very heavy. I recommend that the furnaces be torn out and that both buildings be heated by steam or hot water. For this purpose a large boiler will be required in each building. Such boilers will not only heat the buildings properly but will also do the work in laundries, kitchens, bath-rooms, &c., now done by 6 and 12 horsepower boilers. The estimated cost of boiler, coils, and pipes for the almshouse is $2,500. It will be necessary to employ an engineer who is a skilled machinist, and an assistant, at a cost of $75 per month. The machinist, in addition to taking care of the boilers, will also be able to do the plumbing for the asylum. The large saving in fuel and plumber's bills will, I believe, more than cover the outlay in salaries.

During the winter, small-pox appeared in our city. Shortly after, I was relieved of the management of the small-pox hospital and it was placed under control of the National Board of Health and the District health officer. Upon the subsidence of the epidemic the building was again transferred to may control. The beds and bedding were burned and the building was thoroughly fumigated and disinfected under my personal supervision.

The asylum and the different wards of the hospital are at present lighted by coal-oil lamps. The explosion of lamps is not uncommon and, though no serious damage has yet been done, the use of coal-oil is a source of constant danger and anxiety. Gas should be introduced at the earliest possible moment.

Steam drying-rooms are greatly needed in both workhouse and asylum. At present the clothes and bedding of nearly 400 people have, when washed, to be dried in the open air. Even with the utmost vigilance it is impossible, under the circumstances, to guard wholly against petty larceny by some of the inmates, while the weather often retards the work or makes its redoing a necessity. The fitting up of a room for the asylum is provided for in the estimate, under the head of "improvements and repairs," and for the workhouse, under the head of "completing and fitting up workhouse."

I invite your careful attention to the report of the visiting physician, which is herewith submitted. It shows a large increase in the work performed by the medical staff, and a decided decrease in the death rate. I concur in the recommendation of a large ward for chronic and special cases and a small lying-in ward.

The old Georgetown almshouse is still occupied by the Industrial Home School. During the last year many improvements and changes have been made which are referred to in the reports of the superintendent and managers. I know of no charitable institution which accomplishes more good to humanity, and which deserves more careful fostering and aid at the hands of the District.

STATISTICAL TABLES.

Daily average number of inmates in Washington Asylum.

From July 1, 1876, to June 30, 1877	312
From July 1, 1877, to June 30, 1878	319
From July 1, 1878, to June 30, 1879	327
From July 1, 1879, to June 30, 1880	341
Aggregate number July 1, 1880	334

ALMSHOUSE.

Gain and loss from July 1, 1879, to June 30, 1880.

Number of poor in almshouse July 1, 1879		133
Number of poor received		121
		254
Number of poor discharged	124	
Number of poor deceased	10	
		134
Total number in almshouse June 30, 1880		120

Nativity.

District of Columbia	49	Kentucky	1
Maryland	18	New Hampshire	1
Virginia	15	Ireland	20
New York	4	Germany	5
Pennsylvania	3	England	1
Connecticut	1	Bavaria	1
Massachusetts	1		121
Missouri	1		

Color.

White males	43	Colored males	13
White females	35	Colored females	30

WORKHOUSE.

Gain and loss from July 1, 1879, to June 30, 1880.

Number of prisoners in work-house July 1, 1879		99
Number of prisoners received		2,041
		2,140
Number of prisoners discharged	1,948	
Number of prisoners eloped	39	
Number of prisoners deceased	4	
		1,991
Total number remaining June 30, 1880		149

Nativity of inmates.

District of Columbia	537	Ireland	217
Virginia	461	England	27
Maryland	439	Scotland	12
New York	78	Germany	30
Pennsylvania	90	Italy	4
Ohio	11	France	3
Massachusetts	25	Sweden	3
New Jersey	12	Canada	3
Kentucky	9	Holland	2
South Carolina	7	Hungary	2
Louisiana	7	Austria	1

Connecticut	5
Missouri	5
North Carolina	5
Florida	5
Michigan	5
Tennessee	4
Alabama	3
Maine	3
Delaware	3
Illinois	4
California	2
New Hampshire	2
Indiana	1
Mississippi	1
West Virginia	1
Total native	1,725

Turkey	1
Greece	1
Poland	1
Spain	1
East Indies	1
New Brunswick	1
South America	1
Central America	1
Jamaica	1
San Domingo	1
At sea	2
Total foreign	316
Total native	1,725
Total	2,041

Yearly report from July 1, 1879, to June 30, 1880.

COLOR AND SEX.

Months.	White males.	White females.	Colored males.	Colored females.	Total.
July	55	17	68	28	168
August	57	18	63	33	171
September	47	17	81	22	167
October	63	17	78	25	183
November	66	18	45	17	146
December	113	16	81	17	227
January	57	8	60	12	137
February	34	14	59	16	123
March	47	19	67	23	156
April	62	21	93	36	212
May	57	19	85	28	189
June	53	22	59	28	162
Total	711	206	839	285	2,041

Cause of commitment.

Disorderly	573
Vagrancy	910
Profanity	297
Carrying concealed weapons	59
Indecent exposure	36
Throwing stones	36
Destroying private property	31
Trespass on park	12
Disorderly and concealed weapons	12
Fast driving	10
Destroying public property	6
Disturbing church	6
Further hearing	6
Selling liquor without license	3
Firing a pistol in street	3
Creating a nuisance	3
Cruelty to animals	3
Concealed weapons and indecent exposure	3
Bathing at unlawful hours	2
Refusing to pay hack hire	2
Refusing to assist a metropolitan police officer	2
Disturbing public school	1
Selling hay without having it weighed	1
Vagrancy and profanity	1
Vagrancy and throwing stones	1

Obstructing the pound-master	1
Destroying a tree-box	1
Obstructing streets	1
Driving through a funeral procession	1
Profanity and concealed weapons	1
Violating building regulations	1
Using a measure not of proper standard	1
Profanity and refusing to pay hack hire	1
Violating cart law	1
Concealed weapons and destroying public property	1
Business without license	1
Eloped and recaptured	11
Total	2,041

Estimates for the fiscal year ending June 30, 1882.

SALARIES.

Commissioner and intendant	$1,200
Matron	600
Visiting physician	1,200
Resident physician	480
Clerk	480
One overseer	800
Five overseers at $600	3,000
Four watchmen at $300	1,200
Baker	420
Engineer	600
Assistant engineer	300
Hospital cook	120
Asylum cook	60
Overseers' cook	60
Five nurses, at $60	300
Blacksmith	120
Hostler	60
Total salaries	11,000
Contingent expenses, including provisions, fuel, forage, lumber, hardware, shoes, dry goods, drugs and medicines, improvements and repairs	37,700
Completing and fitting up workhouse	5,000
Total	53,700

The above estimate, as will be seen, contains provision for an engineer and assistant. These offices are, of course, contingent upon the adoption of the recommendation, made by both the inspector of buildings and myself, that steam-heating apparatus be introduced into the workhouse and asylum. The salary of the commissioner and intendant is placed at twelve hundred dollars, in accordance with the views expressed last year by members of your board and of the appropriations committee. It is but a moderate compensation for the amount and quality of work required and is less than is paid in many similar institutions. The salaries of three watchmen who, while engaged in the same work as the overseers, have received but fifteen dollars per month, have been increased in the estimate to twenty-five dollars per month. A blacksmith has been provided for at ten dollars per month. His work saves to the District a bill which formerly amounted to several hundred dollars per year. There are no other changes in salaries.

Very respectfully,

GEO. A. CASWELL,
Commissioner and Intendant Washington Asylum.

The Hon. COMMISSIONERS OF THE
DISTRICT OF COLUMBIA.

APPENDIX M 1.

REPORT OF THE PHYSICIAN.

WASHINGTON CITY HOSPITAL, *August* 25, 1880.

SIR: I have the honor to submit the following annual report of the city hospital for the year ending June 30, 1880:

The number of patients in hospital June 30, 1879, was 59; received since July 1, 1879, 448; born in hospital, 33; total, 540.

The number discharged to June 30, 1880, was 431; deaths, 60; total loss, 491; remaining in hospital, including 6 employés, 55.

Of those admitted, there were white males, 115; white females, 112; colored males, 98; colored females, 123.

In the lying-in wards 31 women—11 white and 22 colored—were received, and 33 children born, 2 of which were cases of twins.

Of the white children born, 5 were males, 6 females; of the colored children born, 10 were males, 12 females. There were three still-births.

Of the number admitted, exclusive of those born in the hospital, 94 were natives of the District, 79 of Maryland, 117 of Virginia, foreign born 101, and the balance represented the different States of the Union.

Besides the sick in the hospital, the asylum and workhouse increase the duties of the medical officers to a considerable extent.

The number of sick calls at the asylum from July 1, 1879, to June 30, 1880, was 2,241; number of prescriptions dispensed, 2,356; daily average, 6.14. The number of sick calls at the workhouse was 5,214; prescriptions, 4,533; daily average, 14.29. Total number of prescriptions dispensed 14,571, a daily average of 39.62.

As showing the very considerable increase in the work of the medical department during this over the preceding year, I copy from the annual report of September, 1879. Number of admissions to hospital, 384; births, 21; prescriptions dispensed, 8,700; deaths, 70; showing, for the year ending June 30, 1880, an increase in the number admitted of 84; of births, 12; of prescriptions, 5,671; whilst the mortality rate has been reduced by 10.

It will be seen from the above statement and comparison that there has been a large increase in the number admitted to the general and lying-in wards of the hospital during the past year, and at the same time a fact, to which attention is especially invited, that the death-rate has been considerably reduced. It is the strongest argument that can be adduced, that the medical and hygienic management of the institution is strictly and intelligently attended to. It is an evidence, too, that the usefulness and importance of the hospital—the only one for the resident indigent sick of the District—is being more and more appreciated by those for whose benefit it is intended.

An old-time prejudice, which attached something disgraceful, and, unfortunately, something dreadful, as well, to the place, is now loosing its hold upon the minds of our poor people. Most of those treated here carry away with them only good impressions. They find clean, comfortable beds, in well-ordered, quiet wards, kind treatment, a better dietary than many of them have been accustomed to, and their diseases treated with skill and judgment and a proper appreciation of their unfortunate condition shown by competent medical officers and attendants.

As these facts become more widely spread among the people, we may

look for an increased demand for the benefits of our institution, and it is hoped that our affairs will be so ordered that the hospital will be able to meet all demands upon it.

To this end, I recommend, with a strong conviction of its necessity, that the medical staff be placed upon its former footing, two resident physicians, under pay, and that a drug clerk be employed to attend to the dispensary, and the duties appertaining thereto. This is a much desired addition to the medical force. As the work is now done, the medical officers have to put up all the prescriptions and copy them, attend to the daily requisitions, keep the records and look after the general affairs of the hospital. All this, after their daily rounds in the asylum, workhouse, and the wards of the hospital. These duties take so large a part of the day, that little time is left for study or recreation. One benefit alone would accrue from this addition to our staff that would fully compensate for the additional expense. We would then be be able to keep a complete record of our cases, medical, surgical, and obstetrical; and many important observations and facts would be saved to us and those who may come after us. It is on this account alone that I am unable, in the yearly reports, to give a more extended medical history of the hospital.

It is usual, in the annual report, to call attention to such wants and improvements, as experience shows us are needed in the wards of the hospital. Conspicuous amongst them, I will mention the want of gas in the several wards. Certain experiences in night service here, have proved to me conclusively, the necessity of this measure. Kerosene lamps do not afford sufficient light for surgical, and many obstetrical operations, and, besides, they are decidedly dangerous when carried about and handled hurriedly, and maybe carelessly. Again, they require the services of one person to take care of them at such times, which service could be much better utilized, or altogether dispensed with, according to the circumstances of each case.

I also call attention to the water supply in the wards. Owing to defective drainage frequent leaks and stoppages occur. The pipe which is supposed to supply the dispensary with hot water, always useful and needed there, is so laid as to be entirely useless for the purpose. When proper drainage is effected, and I learn that the improvement will soon be made, the water-closets can be kept in better condition, and the bath tubs be more used than at present.

It would be a great convenience and some saving to have laundry facilities upon the hospital grounds, so that the washing be done on the premises. There is hardly a time when the wash is sent over that there are not articles misplaced—some are never found—and the trouble and bother of finding them fall upon the medical officers, whose duties are sufficiently onerous and responsible, without this weekly addition.

The improvement of the approach to the main entrance of the hospital has been a problem on which I have spent some thought. The high steps, some 20 in number, are very trying to the sick who have just strength enough to mount them, and to those who have to lift the stretcher up that distance. An easy and pleasant roadway, by which the ambulance or other conveyance might reach the wards, can be constructed by passing in the rear of the workhouse, and entering the hospital grounds at the south side; the same road in fact by which the coal is delivered.

There are other matters of importance, as repairs and alterations in some of the wards, which, whilst only serving to lengthen this report,

will be more properly subjects of mention either in the monthly special requisitions, or of personal consultation.

In submitting this report, it gives me great pleasure to allude to the improvements lately made in the asylum, which have contributed so much to improve its sanitary condition, and thus added so much to the comfort and health of the inmates. In fact, evidences of improvement, as regards the material interests of the place, are visible in all its departments, in doors and out.

As this spirit of improvement is in operation and seems to be progressive, it is hoped that its beneficial influence will be still further extended to the hospital, and that the recommendation, yearly made, for two additional wards will this year receive a satisfactory realization. On the importance of these wards to the better treatment and management of the sick, too much stress cannot be laid. Time and again the want of these has been felt. We have no means of separating or classifying our patients. As I am now writing, we have to put up a tent to isolate a case of cancer, too offensive to keep in the ward. In the same ward is an old man, hopelessly paralyzed and partially insane, unable to help himself, and requiring from the only nurse in charge the attentions an infant needs.

Surgical operations have to be performed, and special examinations of women made in the wards, with only a slight screen to shut out sounds and scenes which are calculated to, and actually do, frighten the sick and retard their cure, and which have the effect, especially among the ignorant and viciously inclined, to give unfavorable impressions as regards the intentions of the medical officers and other attendants.

As the magazine grounds and buildings have lately come into the possession of the District, for the use of this institution, I recommend that, for the time being, until other and better arrangements can be made, one of these buildings be set apart for the use of all cases pronounced incurable, and of such cases of chronic ulcers and old sores as require a protracted course of treatment.

It is these latter which are at all times a source of danger in the general wards of a hospital, on account of the facility with which septic disease may be set up and spread from so fruitful a source of infection. It is true that so far no very serious effects have followed their almost constant presence in the wards; but this immunity has been only partial, and more serious results have only been avoided by the strict precautions constantly used, in keeping the wards clean, by frequent scrubbing, whitewashing, and painting.

The history of every hospital will show that, no matter what the precautions, and in spite of them, serious outbreaks will occur, and it is a wise policy which strikes at the root of the evil. In illustration of the point made, I mention the outbreak of diphtheria in the asylum, a short history of which will be found in my last annual report; and last year of the extensive prevalence of diarrhœa and dysentery, of bad type, in the asylum and hospital. That these diseases were largely due to defective ventilation and sewerage in the asylum, and to the presence of the poison producing sore legs in the hospital wards, I have no doubt.

Since the new workhouse has been occupied, and radical changes for the better made in the ventilation, heating, and bathing facilities in the asylum, it is reasonable to infer that in these departments there will be less disease of zymotic origin. Let us remove from the hospital wards the prime factors in the production of such diseases, and the same results may be predicated.

Since my last report the hospital has lost the valuable services of Dr. P. J. Timmins. Dr. L. Eliot now holds the position of resident physician, and is energetic and skillful in the discharge of his duties.

Respectfully, &c.,

JNO. I. DYER,
Visiting Physician, Washington Asylum.

GEO. A. CASWELL, Esq.,
Commissioner, Washington Asylum.

Mortuary statistics.

	White, male.	White, female.	Colored, male.	Colored, female.	Total.
Apoplexy	.....	.....	1	1	2
Bronchitis	.....	1	1	.....	2
Congestion of brain	1	.....	1	.....	2
Congestion of lungs	.....	.....	1	1	2
Cholera infantum	1	.....	.....	.....	1
Croup, membranous	.....	.....	1	.....	1
Cerebral hemorrhage	.....	.....	.....	1	1
Convulsions	.....	.....	.....	1	1
Diarrhœa	.....	1	1	.....	2
Diarrhœa, chronic	3	2	.....	3	8
Debility, senile	.....	.....	1	3	4
Dysentery	2	.....	.....	.....	2
Dysentery, chronic	.....	.....	1	.....	1
Delirium tremens	1	.....	.....	.....	1
Emphysema of lungs	1	.....	.....	.....	1
Exhaustion	.....	.....	.....	1	1
Hemiplegia	.....	2	.....	1	3
Inanition	.....	.....	1	.....	1
Marasmus	.....	.....	.....	1	1
Pneumonia, typhoid	.....	.....	.....	1	1
Phthisis pulmonalis	.....	1	4	4	9
Pleuritis, acute	.....	1	1	.....	2
Bronchitis	.....	1	.....	.....	1
Bronchitis, chronic	1	.....	.....	.....	1
Paraplegia	.....	.....	1	.....	1
Syphilis, tertiary	1	.....	.....	.....	1
Small pox, confluent	.....	.....	1	2	3
Uræmia	.....	.....	1	.....	1
Valvular disease of the heart	.....	.....	1	2	3
	.....	.....	.....	.....	60

Children under 5 years, ten are included in the above statement.

N.—REPORT OF COLUMBIA HOSPITAL FOR WOMEN AND LYING-IN ASYLUM.

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Resident Physician and Surgeon in Charge.

P. J. MURPHY, M. D.

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Matron.

Mrs. A. L. S. THOMBS.

GENTLEMEN: The board of directors of the Columbia Hospital for Women and Lying-in Asylum, present to you the fourteenth annual report. The scope and success of the work done in the hospital will be best seen by an examination of the following special reports:

The enlargement of hospital accommodations is greatly needed, as explained by the reports of the surgeon in charge and of the advisory and consulting board of physicians and surgeons, and the board of directors ask that a special appropriation be granted for this purpose.

The detached cottages for infectious cases, for which a special appropriation was made by Congress, have not yet been completed. Plans and drawings are prepared, and the work will be begun soon. It has been delayed only for wisely maturing the plans. It is hoped that a special appropriation may be made during the coming session of Con-

gress for the ample furnishing of these cottages. It is the unanimous opinion of the board, and especially of those qualified by experience as physicians to know the special need, that there is nothing so greatly needed in this city, as part of hospital work, as full provisions for women suffering from cancer and other malignant diseases.

The board of directors express their full satisfaction with the management of the hospital as directed by the surgeon in charge; and they owe a debt of thanks to the board of consulting physicians and surgeons for help in constant watchfulness and advice; and to the board of lady visitors for their continued interest. And they acknowledge besides kindly interest shown by a number of friends in gifts of clothing and flowers.

Signed on behalf of the board.

WILLIAM PARET,
President.
N. YOUNG, M. D.,
Vice-President.

The Hon. COMMISSIONERS OF DISTRICT OF COLUMBIA.

To the Board of Directors Columbia Hospital for Women and Lying-in Asylum:

Mr. PRESIDENT: The following is the fourteenth annual report of the Columbia Hospital for Women and Lying-in Asylum, and the Columbia Hospital Dispensary, for the fiscal year ending June 30, 1880.

Patients in hospital July 1, 1879		27
Number admitted during the year		337
Total treated during the year ending June 30, 1880		364
Discharged during the year	340	
Died during the year	1	
		341
Remaining in hospital July 1, 1880		23
Prescriptions compounded		2,121

The daily average, exclusive of infants and dispensary patients, has been for—

July	35.77	January	33.35
August	36.33	February	35.34
September	35.54	March	37.73
October	33.48	April	39.45
November	36 40	May	38.26
December	34.14	June	32.05
For the year			35.65

Amount expended from appropriation for year ending June 30, 1880	$11,991 66
Amount expended from pay patient fund	2,263 56
Total	14,255 22
Average daily expenditure for year	$38 95
Average daily expenditure per patient	1 09

NATIVITIES.

States	264
Foreign	61
District of Columbia	39
White	223
Colored	141
Sex of children:	
Male	71
Female	59

I.—OBSTETRICAL CASES.

Delivered before June 30, 1879, but in hospital July 1, 1879	10
Delivered during the year ending June 30, 1880	128
Left before delivery	34
Remaining in hospital undelivered July 1, 1880	4
Total	176
Maternal mortality	1
Infantile mortality	8
Cases of twins	3
Forceps deliveries	8
Adherent placentæ	2
Post-partum hemorrhage	3
Ante-partum convulsions	1
Ante-partum and post-partum convulsions	1
Prolapsus funis	1
Breech presentatiens	9
Footling presentations	1
Molar pregnancy	1
Hydramnios	1
Still births	6
Abortions	7

CAUSES OF DEATH.

Maternal, chronic diarrhœa	1
Infantile:	
Atalectasis pulmonum, living 5 days	1
Atalectasis pulmonum, living 7 hours	1
Premature at 7 months, living 7 hours	1
Premature at 7 months, living 26 hours	1
Congenital syphilis, premature at 7 months, living 4 hours	1
Congenital syphilis, premature at 7½ months, living 7 days	1
Inanition, living 3 days	1
Inanition and premature at 8 months, living 4 days	1
Total	8

Of the still births, 1 was due to asphyxia in protracted labor; 1 to ante-partum convulsions; 3 were syphilitic and premature at 4, 7½, and 8 months, respectively, and 1 at full term was advanced in decomposition, supposed syphilis. Total 6.

Abortions, two were at 5 and 7 months respectively and supposed to be criminal; 1 was at 6 months and syphilitic; and 4 were at 3, 4½, 5, and 6 months respectively, cause unknown. Total 7.

In one case of twins a dead fœtus of about 4 months was born with a living child advanced to the eighth month of gestation.

Wet nurses supplied, 8.

II.—MEDICAL AND SURGICAL CASES.

Diseases.	Cured.	Relieved.	Unrelieved or incurable.	Result unknown.	Died.	In house.	Total.
Adenoma mammæ	2						2
Alcoholism		1					1
Amenorrhœa			1	1			2
Carcinoma uteri			4			1	5
Cystitis		3	1				4
Cystocele		1					1
Dropsy			1				1
Dysmenorrhœa	1	1		1			3
Elongation cervix uteri		1					1
Endo-cervicitis	13	6		5		1	25
Endo-cervicitis with retroversio uteri	1						1
Endo-metritis (acute)	17	7		5		2	31
Endo-metritis (chronic)	8	4	1			2	15
Endo-metritis with laceratio cervicis uteri		1					1
Endo-metritis with retroversio uteri	2	1					3
Fibroids uteri	1	5	2			1	9
Fibroma cervicis uteri	1						1
Hysteria		2		1			3
Laceratio cervicis uteri	2			1			3
Laceratio cervicis uteri with prolapsus uteri	1						1
Leucorrhœa	6	6					12
Mammitis	4						4
Menopause	1	3					4
Menorrhagia with retroversio uteri		1					1
Metritis (acute)	2						2
Metritis (chronic)	1	2		1			4
Metrorrhagia	1						1
Ovarian neuralgia	1						1
Ovarian tumor		1				1	2
Parametritis						1	1
Pelvic hematocele	1						1
Polypus uteri	1						1
Prolapsus uteri with endo-cervicitis and hypertrophic enlargement of cervix uteri						1	1
Prolapsus uteri with ulceration of cervix uteri						1	1
Pruritus vulvæ	1						1
Recto-vaginal fistula	1						1
Retroversio uteri	5		1				6
Retroversio uteri with chronic metritis						1	1
Retroversio uteri with dementia				1			1
Retroversio uteri with hysteria	1						1
Rupture perineum	1		1				2
Rupture perineum with cystocele	1						1
Rupture perineum and recto-vaginal fistula	1						1
Scirrhus mammæ		2	2				4
Subinvolutio uteri	2						2
Suppressio mensium		2		3			5
Tumor of posterior vaginal wall	1						1
Vaginismus		1					1
Vaginitis	2	2		2			6
Vaginitis, specific				2			2
Vomiting of pregnancy	1						1
Vulvitis	1			1			2
Total	85	53	14	24		12	188

Principal operations performed during the year on patients, all with some disease peculiar to their sex.

Diseases.	Cured.	Relieved.	Unrelieved or incurable.	Result unknown.	Died.	In house.	Total.
Adenoma mammæ	1						1
Amputation of cervix uteri		1				1	2
Enucleation fibroids uteri	1						1
Enucleation fibroma cervicis uteri	1						1
Femoral hernia		1					1
Fistula in ano	1						1
Laceration cervicis uteri	4		1				5
Mammary abscess	1						1
Ovarian tumor						1	1
Polypus uteri	1						1
Recto-vaginal fistula	2						2
Rupture perineum (primary)	5						5
Rupture perineum (secondary)	3		1				4
Scirrhus mammæ		2					2
Tumor from posterior vaginal wall	1						1
Total	21	4	2			2	29

Report of Columbia Hospital Dispensary for fiscal year ending June 30, 1880.

Patients under treatment at date of last report	38
Patients received during the year	470
Whole number treated during the year	508
Number cured	233
Number relieved	105
Number died	0
Result unknown	77
Number unrelieved or incurable	19
Number sent to hospital	41
Prescriptions compounded during year	944
Number under treatment at date of this report	33

Combined statement of hospital and dispensary.

	Hospital.	Dispensary.	Total.
Patients under treatment at date of last report	27	38	65
Patients received during year	337	470	807
Whole number treated during year	364	508	872
Number cured	215	233	448
Number relieved	53	105	158
Number unrelieved and incurable	14	19	33
Number died	1		1
Result unknown	58	77	135
Number sent to other institutions			
Number sent to hospital		41	41
Number of births	128	8	136
Prescriptions compounded during year	2,121	944	3,065
Number under treatment at date of this report	23	33	56

It is a source of much gratification to me, the medical officer of this institution, to be able to present for your consideration a tabulated and systematic statement of such favorable results regarding the hygiene and management in the care of the sick as the details just enumerated conclusively establish. As will be observed, there have been treated during the year 364 patients, having a daily average of 35.65, an increase of 65 in the number treated over that of last year, and largely in

advance of that of any year since the foundation of the hospital. The amount of appropriation, much less than that usually granted, was $12,000, of which $11,991.66 was expended, making the daily cost to the government of each patient admitted during the year 92 cents.

One death from chronic diarrhœa occurred in the lying-in department. The patient, a poor woman, was admitted a few days prior to delivery, her health entirely broken down with tuberculous disease of the lungs. She died from exhaustion on the evening of the fifth day following a natural labor. This is the first maternal death from any cause that has occurred during a period of more than three years, and in 351 consecutive deliveries—a record, I believe, unsurpassed by any maternity in the United States or Europe.

During my term of office, no case of puerperal septicæmia has manifested itself in the lying-in wards, which is attributable in part to the almost daily fumigation which is being carried on in some of the delivery rooms before they are occupied a second time, and also to the rigid cleanliness and use of disinfectants by the attendants.

Twenty-nine operations, including one ovariotomy, have been performed during the year, and in no instance did any untoward symptoms appear which could be attributed to infection; thereby establishing the fact that a thorough system of police was carried on in the various surgical wards of the hospital.

Unfortunately, we have not the desired accommodations for the increasing number of applicants, either in the surgical wards or the lying-in department, and frequently it has happened that the rooms were so crowded as to make it necessary to transfer patients from one ward to another not suited to their condition. In order to segregate as far as possible both sections of the hospital, which is deemed absolutely necessary in order that disease and death may be prevented, the growing interests of the hospital require that I submit for your consideration the necessity of providing additional accommodations, by making the west wing of the building to correspond with the eastern portion, thus furnishing ample room for the care and treatment of the sick committed to our charge.

The entire building is now amply supplied with water, and the heating apparatus furnished abundant warmth during the winter months.

The dispensary service has been very largely attended during the past fiscal year, but accuracy in detail of the results of treatment cannot well be obtained. Patients frequently do not return when relieved, and if not relieved in a given time frequently too seek other charities in the hope of a more speedy recovery; thus preventing our obtaining a complete record of their cases. But the amount of good accomplished is apparent from the fact that over 500 poor women were gratuitously attended and furnished with medicine from the hospital. Some were also visited at their homes, when unable to come in person, and several cases of midwifery, not included in the hospital report, received the professional services of the resident student or physician free of charge. As corroborative of the statements made regarding the careful attention paid to sanitary laws, cleanliness, and the police of the establishment, attention is invited to the weekly record of inspections made by the members of the advisory board of physicians and surgeons, an examination of which will show that nothing has been claimed which is unwarranted by circumstances.

I have to thank most sincerely the gentlemen of the advisory board for the increasing interest they have taken in the well-being of the hospital and dispensary; also for their kindly assistance and counsel, which

have at all times been courteously tendered. Much of the success attending my labors is due to their hearty co-operation.

I regret very much that owing to sickness I have been deprived of the valuable services of Drs. Ritchie and Mackall, and I sincerely hope that their complete restoration to health may enable them to continue that association with us, which has been productive of so much good to the hospital and its inmates.

The board of lady visitors have been very attentive to the wants of the sick poor in our wards, and have frequently obtained positions for homeless and destitute women, who, having received all the benefit the hospital could afford, find themselves without the means of support and unable to procure situations.

The nurses and employés have been faithful in the discharge of their respective duties, and the matron has efficiently managed all that pertains to the domestic portion of the institution.

Very respectfully, your obedient servant,

P. J. MURPHY,
Surgeon in Charge.

SEPTEMBER, 1, 1880.

To the Board of Directors of the Columbia Hospital for Women and Lying-in Asylum:

GENTLEMEN: It again becomes our duty to submit a report of the advisary board of the hospital for the fiscal year ending June 30, 1880.

It is with pleasure that we call attention to the gratifying success which has resulted from the treatment of the sick in this hospital, results which have been far more favorable than we could have had any reason to expect.

In the period to which this report relates but a single death has occurred, that of a patient suffering from a chronic disease when admitted; and it is worthy of note that this represents the total adult mortality occurring in the lying in wards in three hundred and fifty-one consecutive cases of labor.

The changes made in the heating apparatus and the water supply add very greatly to the efficiency of the institution.

The board express great gratification at the action of Congress in making an appropriation for the erection of two isolated cottages for the reception of infectious and puerperal diseases. Plans have been drawn by a competent architect, who is now engaged on the working specifications, and the erection of the cottages will be commenced at once. In view of the fact that the cottages will soon be ready for use, the board suggest the necessity for an appropriation for furnishing them.

We would renew our suggestion made in the last report that a stationary washstand with hot and cold water should be introduced into the consulting and operating room for dispensary patients.

It is apparent from the hospital records that, owing to the increased number of applicants for admission, additional facilities should be provided, if it is intended to further extend the usefulness of the charity. We are of the opinion that this can be done most readily and economically by making an addition to the west side of the building to correspond with the east wing.

It would seem appropriate at this time that the results of the past three years should be made a matter of record for the benefit of the profession at large. It is with extreme diffidence that we venture to sug-

gest that a report should be prepared embodying the history of the cases and their treatment while in the hospital. This we do in accordance with the expressed desire of many members of the profession.

The general management of the hospital during the year has been most excellent, as the record of inspections made by the advisory board will show.

It is fitting that we should express our continued appreciation of the skill and efficiency evidenced by the surgeon in charge in his conduct of the hospital, and we regard with approval the manner in which the resident student and matron have performed their duties.

Very respectfully,

J. A. RITCHIE, M. D., *President.*
Z. T. SOWERS, M. D., *Secretary.*
J. O. STANTON, M. D.
LOUIS MACKALL, JR., M. D.
JAMES T. YOUNG, M. D.
H. C. YARROW, M. D.
ROBERT REYBURN, M. D.
D. R. HAGNER, M. D.

FINANCIAL STATEMENT.

John T. Mitchell, treasurer of the Columbia Hospital for Women and Lying-in Asylum, in account with the United States.

1879.			
July	29.	By United States Treasury draft	$3,000 00
Sept.	30.	To amount expended to date, as per vouchers	2,689 61
	30.	Balance on hand	310 39
Oct.	1.	Balance brought forward	310 39
	29.	By United States Treasury draft	3,000 00
			3,310 39
Dec.	31.	To amount expended to date, as per vouchers	3,301 84
	31.	Balance on hand	8 55
1880.			
Jan.	1.	Balance brought forward	8 55
	13.	By United States Treasury draft	3,000 00
			3,008 55
March	31.	To amount expended to date, as per vouchers	2,714 09
	31.	Balance on hand	294 46
April	1.	Balance brought forward	294 46
	26.	By United States Treasury draft	3,000 00
			3,294 46
June	30.	To amount expended to date, as per vouchers	3,286 12
	30.	Balance on hand	8 34
Appropriation "for the support and maintenance of the Columbia Hospital for Women and Lying-in Asylum for the fiscal year ending June 30, 1880			12,000 00
Total amount expended during the fiscal year ending June 30, 1880			11,991 66
Balance to credit of appropriation June 30, 1880			8 34

Classification of expenditures made from appropriation for the fiscal year ending June 30, 1880.

Surgical instruments	$43 25
Medical supplies	351 46
Stationery, books, and periodicals	70 45
Material (house furnishing)	399 80
Salaries (including pay roll)	4,456 00
Fuel	386 62
Gas	305 53
Ice	164 96
Repairs, &c	854 12
Subsistence	4,959 47
	11,991 66

Statement of amounts received and expended from pay-patients for the fiscal year ending June 30, 1880.

1879.				
July	1.	Balance on hand per last account		$689 35
Sept.	30.	By cash received from matron	$581 00	
Dec.	31.	By cash received from matron	404 00	
1880.				
March	31.	By cash received from matron	461 00	
June	30	By cash received from matron	771 00	
				2,217 00
				2,906 35
June	30.	To amount expended to date, as per vouchers		2,263 56
	30.	Balance on hand to new account		642 79

Classification of expenditures made from funds received from pay-patients for fiscal year ending June 30, 1880.

Medical supplies	$142 30
Stationery, books, and periodicals	53 85
Material (house furnishing)	97 55
Salaries (including pay roll)	500 00
Fuel	120 91
Ice	116 25
Repairs, &c	356 85
Subsistence	875 85
	2,263 56

JOHN T. MITCHELL, *Treasurer.*

Examined and approved.

F. H. SMITH,
LOUIS MACKALL,
CHAS. H. CRAGIN,
Committee on Expenditures.
H. A. WILLARD,
F. A. ASHFORD,
Auditing Committee.

RECAPITULATION.

Amount expended from appropriation fiscal year ending June 30, 1880	$11,991 66
Amount expended from pay-patient fund fiscal year ending June 30, 1880	2,263 56
Total	14,255 22
Average daily expenditure	39 06
Average daily expenditure per patient	1 10

To the Board of Directors Columbia Hospital for Women, Washington, D. C.:

GENTLEMEN: In compliance with sec. 4, cap. xi of the by-laws, an accurate inventory of books, surgical instruments, medical supplies, &c.,

&c., has been kept in the accompanying records which have been examined by the "committee on personal property," and no purchase of any article has been made for the fiscal year ending June 30, 1880, unless what was absolutely required by the wants of the hospital.

P. J. MURPHY,
Surgeon in Charge.

SEPTEMBER 6, 1880.

P. J. MURPHY, M. D.,
Surgeon in Charge Columbia Hospital for Women.

SIR: I beg leave to state that a correct inventory of all bed and table linen, household furniture, and all hospital property under my charge is found in the accompanying record, which has been submitted to the committee on personal property for examination.

During the summer donations of flowers have been received from Colonel Casey and other friends of the hospital, and have been distributed through the free wards. Also newspapers, magazines, &c., from the Young Men's Christian Association, and others, thereby adding to the comfort and amusement of the patients. Valuable contributions of clothing have also been made by ladies for the destitute women and children, for all of which we are truly thankful.

Yours, &c.,

A. L. S. THOMBS,
Matron.

I have personally inspected the property of the hospital and find it to be in good condition and according to the reports of property on hand.

E. D. TOWNSHEND,
Of Committee on Personal Property.

To the Board of Directors Columbia Hospital for Women.

GENTLEMEN: I have the honor to submit for your inspection the accompanying account book, which contains an accurate statement of the number of pay patients for the fiscal year ending June 30, 1880, with the dates of their admission and discharge and the receipt of the treasurer for all money received from them.

Your obedient servant,

A. L. S. THOMBS,
Matron.

We have this day, September 15, 1880, examined the matron's book of account and receipts from pay patients and find the same to be correct.

H. A. WILLARD,
F. A. ASHFORD, M. D.,
Committee of Audit

O.—REPORT OF THE CHILDREN'S HOSPITAL.

WASHINGTON, D. C., *October* 25, 1880.

GENTLEMEN: As it is contemplated by Congress in making annual appropriations for the relief of the charitable institutions of this District, that the managers thereof should submit to you a yearly report of the expenditure of such appropriation, and, also, of the workings of their respective institutions, to enable you to determine by the exhibits presented, the extent of benefit resulting to the community through this instrumentality; and whether the amounts appropriated for their support, in whole or in part, are judiciously applied, and that the end attained through the administration of the respective institutions, justified the appropriations for their benefit; I therefore, at the instance of the board of directors of the "Children's Hospital, of the District of Columbia," submit for your consideration a statement of its affairs, and the work accomplished through its agency, from the 1st of December, 1879, the date of the last annual report, to October 25, 1880, a period of ten months and twenty-five days.

The fiscal year of the Children's Hospital, commences on the 1st of December; and looking to a thorough supervision of its affairs, there are four stated meetings of the board of directors, held on the second Mondays of December, March, June, and September, respectively, when the workings of the institution for the preceding quarter, embracing the admission and condition of its patients, its expenditures, and all other matters affecting its interest, are thoroughly investigated and considered. In addition to this supervision, there is a board of hospital administration, consisting of the attending physicians, and certain members of the board of directors; and also, a board of lady visitors, who meet monthly, when the daily affairs of the hospital relating to the admission of patients and their medical and surgical treatment, as well as its domestic transactions, are thoroughly investigated. The attending physicians visit the hospital daily, as also a visiting committee representing the board of lady visitors, who exercise a very rigid supervision over the respective departments of the hospital confided to their management.

I refer to this fact to show the careful consideration given the affairs of the institution, which is conducted with the greatest economy; and in this connection, I have to state that, with the exception of the matron, nurses, and servants, the services of all others connected with it are gratuitously rendered. Since the quarter ending June 1, 1880, to October 25, 123 children have been under treatment in the respective wards of the hospital. Of this number 81 have been admitted since June 1, and 42 remaining over at that date. During the time stated 754 children have been under treatment in the dispensary, making a total of 877 patients who have been the recipients of this charity. Of the hospital patients, 46 have been permanently cured, 15 discharged in an improved condition, 7 unimproved and removed by their parents, 1 incurable, and 8 have died, leaving at this date 45 children under treatment. Of the dispensary patients, 417 have been cured, 93 improved, 22 unimproved, and 3 have died, leaving under treatment at this date, 218 patients.

From June 1 to September 25, 1880, a period of four months and twenty-five days, 2,837 prescriptions were compounded—1,308 for hospital patients, and 1,529 for patients in the dispensary.

I will state for your information, that from the date of the last annual report, December 1, 1879, to October 25, 1880, ten months and twenty-five days, 192 children had been under treatment in the hospital, and

1,562 in dispensary, making a total of 1,754 patients under treatment during that time. The total number of prescriptions compounded for the time stated, and which shows to a limited extent the attention bestowed by the attending physicians upon these suffering patients, as well as their condition, is 6,711; 2,710 for hospital patients, and 4,001 for those under treatment in the dispensary.

The Childrens' Hospital was incorporated on the 5th of December, 1870, although organized during the month of February of that year; and during the ten years and eight months of its existence, 1,033 sick and helpless children have occupied beds in the hospital, and 8,548 patients have been treated in the dispensary, making a total of 9,581 patients who have received gratuitously medical and surgical treatment through its agency.

From the appropriation of $5,000 for the fiscal year terminating June 30, 1881, $2,500 have been drawn from the Treasury, and in part expended, which amount will be found upon an examination of the accounts of the treasurer, Mr. F. B. McGuire, a bonded officer, to have been judiciously and economically expended; and in this connection I desire to state that no bill is paid by him without the express authority of the board of directors, or of the board of hospital administration, and that his monthly accounts are carefully examined by the finance committee, of which Mr. Thomas J. Fisher is chairman, to determine their correctness.

This exhibit of the beneficial workings of the institution in affording relief to so large a number of the indigent and suffering children of this District, is the best evidence of its importance to the community, and shows that each year it is increasing in usefulness, and has become, in fact, a necessity to the District, and therefore should receive the encouragement and support of every citizen, as well as of the District government, and Congress.

The Children's Hospital is independent in its organization, and founded upon the broad principle of humanity, its purpose being to do the greatest good to the greatest number of indigent suffering children in our midst, without reference to sect, color, or condition; and if possible restore them to health and usefulness.

We invite the closest scrutiny of all of its departments, its disbursements, as well as management; and in this connection earnestly request that one or more of the Board of Commissioners should visit the institution, at least monthly, for this purpose, feeling satisfied that the more thorough the investigation, the more favorably impressed your board will be, not only as to the economy of its administration, but of the actual necessity of such an institution in our District. When considering the great work which it has accomplished, as well as that to be performed in the future through its agency, in view of the yearly increase of our population, and the consequent increase of the class of suffering patients for whose benefit the hospital has been established, and without which the entire expense of caring for this class of patients would devolve upon the District government, the Children's Hospital is a direct saving to the District treasury, and is entitled to the especial considerations of the Commissioners. As is known to your board we have acquired, through the energy of the managers of the hospital, a building and grounds for hospital purposes creditable to our city, and the building recognized by those of the medical profession throughout the country who have visited it, as a model hospital, with all the requisite appliances for the purpose for which it was incorporated. The value of the property is estimated at more than $50,000, and has been paid for,

with the exception of $8,500, which the board of directors have every hope will be paid within a reasonable time without aid from the District government, or of Congress.

In view of the importance of this institution, Congress has made the several annual appropriations of $5,000 towards its support and maintenance, believing that the Children's Hospital, owing to the humanitarian work in which it is engaged, is eminently entitled to its favorable consideration as well as that of the District government; and the board of directors, therefore, respectfully request that, in view of the facts stated, an estimate may be made by your board in your annual report to Congress for the usual small appropriation of $5,000 toward its support and maintenance for the fiscal year terminating June 30, 1882.

On the 1st proximo the annual report of the hospital, embracing an itemized account of its receipts and expenditures, will be submitted to the board of directors, and a copy thereof will be forwarded to you for your consideration.

I remain, with great respect, your obedient servant,

SAM'L V. NILES,
President Children's Hospital.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

P.—REPORT OF THE INDUSTRIAL HOME SCHOOL.

To the Commissioners of the District of Columbia:

GENTLEMEN: We herewith transmit the annual report of the board of managers of the Industrial Home School of the District of Columbia, showing the operations of the institution for the year ending June 30, 1880.

Respectfully,

C. M. MATTHEWS,
President.
HULDAH W. BLACKFORD,
Secretary.

NOVEMBER 26, 1880.

The managers of the Industrial Home School of the District of Co lm bia report that during the year ending June 30, 1880, the number of children under their care was 87—29 girls and 58 boys. The necessities of these children in regard to their shelter, food, clothing, and education have been provided for, in accordance with the plan adopted when the school was established in 1864, which is as follows: "To furnish instruction, provide homes, and supply the pressing wants of homeless and friendless children, to furnish them with suitable clothing; bring them under Christian influence, and instruct them in industrial pursuits, that they may be taught to earn an honest living, and become useful members of society." The children have been organized into a "public school" and receive the same degree of instruction as children in other parts of our city. The chief event of the year, and to which public attention is particularly invited, was the commencement of teaching industrial occupations in an educational manner, that is, according to the same rules which govern the teaching of reading, writing, arithmetic, and drawing. The pupils of both sexes have had the benefit of

this education, and they have manifested the same degree of aptitude as is usual for children in any of their usual school studies. The experience we have thus gained has lifted industrial education out of the domain of experiment and placed it upon the foundation of accomplished fact.

The managers understand that the public cannot, as yet, see the possibility of having the "industries" taught by the "pedagogic method," they therefore trust that their success so far may tend to remove the doubts from the minds of those who thus think upon the subject.

The system of public-school instruction, as it now exists, is in better condition than at any previous period of our history, and is justly entitled to the affections of the people, but its usefulness will be increased and the love of the people for it intensified, when it shall include the teaching of the industries by which the country is supported, and thereby enable the young, in a great measure, to earn their own living. It must be readily admitted that exclusively mental studies should not monopolize all the time of the young in the manner of their education. While the managers are thus taking an active part in enlarging the educational opportunities of the young, they also acknowledge the necessity of making an advance in the manner of caring for children committed to the care of the benevolent, and they propose to introduce the "cottage system," to take the place of the "institutional system" which is now in vogue. It is very hard to change antiquated conditions, and the public has become so familiar with the dull round of "asylum life," that efforts to break it up meet with feeble support from the people. This chronic state of affairs must be changed; the cottage system is demanded by the best interests of the children, it is commended by the highest authorities interested in the welfare of the young, and is being adopted by kindred institutions in our own and foreign lands.

The managers propose to "go forward" in this part of their work, and thus introduce the family mode of living, with all its benign influences, and though their means were too limited to secure such a very desirable result as a "cottage home" during the past year, it belongs to the plan of this school and will doubtless be erected in the near future, as the managers must have opportunities commensurate with the important trusts committed to their care. The institution is supported by private contributions, by the proceeds of the work done by the pupils, and by Congressional appropriations. It is also a "public school," and the education, both industrial and mental, is free, and it is of that practical character which will meet the prospective necessities of the young of both sexes throughout our country.

The children of the Home have been working for a long time making tree-boxes for the parking commission of this city, assisting in housework, sewing, and mending; and though by these means they were usefully occupied, it was not in any educational manner that the work was done.

The commencement of industrial education required more than usual care and discrimination. It was deemed best to introduce one or two studies and have them fairly understood by the pupils before others were begun. The studies selected were shoemaking and gardening, and as this is the first school where such occupations are taught by a purely educational method, a notice of the plan adopted and which has so far proved successful is here given. Of the inmates of the Home, 24 boys and 8 girls, being all who were old enough and strong enough, took up the study of shoemaking. These were divided into four classes of six boys and two girls each. The afternoons of four days in the week were

given to this branch of their education, the other portions of the day being devoted to the usual exercises of the school. One hour was given to the instruction of a class, the boys beginning with the elementary conditions of the work, such as preparing the thread, followed by sewing, pegging, &c., the girls at cutting and pasting the uppers, &c. The attendance of the pupils was constant; in no case was there any tardiness or compulsion. It was to these children a new idea in thus seeing themselves growing to be useful and their education assuming the condition of absolute knowledge. So intelligent was the scholars' conception of their work that within the time covered by this report, viz, from March 1 to June 30, 1880, a period of only four months, they had each received 33 lessons, and had acquired sufficient skill to half-sole and heel 28 pairs of their own shoes and also make complete in every particular 16 pairs of shoes for their own use. The girls were taught at the same time cutting and pasting, beginning with paper until familiar with the use of the requisite tools, and having become skillful enough they cut out the uppers, pasted and fitted them for the 16 pairs of shoes made by the boys.

The teaching of gardening in its two-fold condition of agriculture and horticulture was begun March 15, 1880, with John MacTaggart as teacher. In this study, the pupils were divided into classes of eight each; the lessons were daily, of one hour each, mostly in the afternoon when the usual exercises of the school were over, though occasionally they were taught in the morning from seven to eight o'clock. They were instructed in ploughing, harrowing, sowing, and planting, as the time came round for these different kinds of work. The children thus became familiar with the soil and the manner of its cultivation, with the various seeds and the manner of their planting, also with the gathering of such crops as matured prior to the thirtieth of June, and other details of agricultural and gardening life. The result of their education has widened their experience, gave them some knowledge of the labor of the farm, and deepened their convictions of the value of their industrial studies.

It is contemplated to introduce the study of cooking—that is, the proper preparation of food, which in a great measure controls the health of all the people. A knowledge of this occupation opens up a wide field of usefulness for our pupils when they leave the school, and by which they may be able to support themselves. Laundry work and other branches of house-keeping, and the every-day duties of domestic life shall be systematically taught by the educational method. Sewing, fitting, dress-making, and tailoring shall be added. The "art preservative of all arts," printing, shall receive special recognition; its value as an industrial pursuit, covering an entirely different phase of manual training, is increased by its being a co-ordinate branch of mental discipline. Pottery work and its affiliated branches of tile work, modelling in clay and moulding in plaster of Paris, shall also be introduced as an educational element, convinced as we are that in acquiring a primary conception of form no branch of handicraft is better calculated to develop æsthetic tendencies and enlarge the intellectual capacities of the young.

These plans cannot be carried out without the co-operation of the friends of the cause committed to our care, and there is no visible reason why this effort to enlarge the basis of public instruction should not be sustained in the most heroic manner.

The necessity of industrial education is forcing itself upon public attention. Educational journals favor it. Educational conventions take action upon it, and earnest, intelligent, and benevolent men and women

manifest a deep interest in this valuable addition to the privileges of the children. Industrial training is in no sense an innovator; it is demanded by the people, at the hands of those to whom has been committed the education of the children of the nation; it is called for by the common necessities of the human race, and is justly entitled to kindly recognition as a valuable member of our public educational system. The necessities of the children are so pressing, and their school time is so short, that those studies which are admitted to be fundamental should be given special prominence, and may be grouped as follows:

I. Reading, which includes spelling, with the definition and explanation of words; for by reading knowledge is acquired.

II. Writing; for by writing knowledge is imparted.

III. Arithmetic, including keeping of accounts; for by arithmetic knowledge is computed.

IV. Drawing, including geometric forms, is the basis of all industries. Without the power of drawing not a steamship could be built, not a railway planned, not a bridge constructed, not a machine made nor a tunnel bored, not a dwelling could be designed, nor the furniture which beautifies and adorns it and makes it comfortable. By drawing knowledge is graphically presented.

V. Industrial pursuits, which teach the children to support themselves, earn an honest livelihood, add to the general welfare of the community, and become useful members of society.

It needs no argument to prove that children receiving such an education as here indicated, beginning in their tenth year, will at the age of fifteen be in a good degree prepared for a useful and honorable career in life.

The managers were enabled during the year to erect a suitable building, in which are the public school, the dining-room, the kitchen, and the laundry; also an additional structure, where our wood-work is done, and in which the shoemaking school is located. These buildings were dedicated with appropriate exercises January 2, 1880. Among those present were Hons. Josiah Dent and Thomas P. Morgan, Commissioners of the District of Columbia; Hon. John Eaton, United States Commissioner of Education; Mr. J. Ormond Wilson, superintendent of public schools of the District of Columbia; Mr. Thomas Somerville, trustee of public schools; and of the managers of the Industrial Home School, Mrs. Huldah W. Blackford, Mrs. Jane Curtis, Mrs. Lucy S. Doolittle, Mr. John Hitz, Mr. W. W. Curtis, Mr. W. Nordlinger, and Mr. Joseph M. Wilson. Rev. John S. Chew began the services by reading the Bible, followed by singing, and repeating the Lord's Prayer, by the children. Brief addresses were made by the gentlemen present, and closing with a pleasant entertainment for the children. Various other improvements have been added during the year; among the most prominent was the windmill, which we received from Messrs. Mast, Foos & Co., of Springfield, Ohio. Nothing could be more useful. Erected over a spring, it forces the water for a distance of several hundred feet into an elevated tank, from whence it is distributed throughout the buildings. It thus saves to the household an immense amount of labor by having the water handy—in the bath-room, the laundry, and the kitchen—rather than to bring it by hand from the distant spring or pump. Its simplicity of construction and strength of material has enabled it to weather successfully all the storms of the season.

Another comfort for the household was a Remington sewing machine, which reached the Home in time to be set to work with a will, and its celerity of movement and its general adaptability to all sorts of sewing

demanded by a family of over eighty persons makes it a very acceptable member of the institution. During working hours its constant use has tested its power of endurance as well as its perfection of manufacture with eminently satisfactory results.

During the year the following members of Congress visited the school, viz: Messrs. Horr, McGowan, and Conger, of Michigan, and Mr. Cobb, of Indiana, all of whom expressed their gratification in knowing that an earnest effort was being made to incorporate the teaching of the "industries" in at least one of the public schools of Washington. The method of industrial education as practiced in the school was explained to them, they saw the scholars and the way the work was done, and witnessed the economic administration of affairs at the Home. The information thus obtained aided greatly in securing from Congress an appropriation of $10,000 for the year ending June 30, 1881. Congress also provided that one of the Commissioners of the District should attend, officially, the meetings of the board of managers, and we record with gratification the fact that Hon. Josiah Dent has been thus appointed.

Though our institution is known by its corporate title of "The Industrial Home School," having for its main object the industrial education of the young, the managers have at times yielded to the pressure made upon them for admission, and they have received children too young for any such training, one-third of the number in the Home coming within that condition. It is the intention of the managers to teach these very young children by the Kindergarten method, by employing a kindergarten teacher thoroughly trained for the good work of illustrating Froebel's love for little children.

We have thus with becoming brevity set forth the operations of the year, and while there is nothing novel in the idea of taking care of homeless and friendless children, as witnessed by the many "asylums" of all kinds scattered throughout our land, we believe that an enlightened public opinion will sustain this effort to give to these children, in addition to shelter, food, and raiment, an education, beneficent in its influence, practical in its character, and which will doubtless lead to the best results. Whatever is worth doing at all is worth doing well, and it is true benevolence to enable those who need help, to help themselves.

Mr. L. Barnes, superintendent, reports as follows: Another year has passed away, and no one can look with indifference upon an institution of this kind, where children are tenderly cared for, clothed, fed, and so instructed that the foundations may be securely laid for a useful and respectable life. The number of children in the Home July 1, 1879, was 47—15 girls and 32 boys. During the year ending June 30, 1880, 40 were admitted—14 girls and 24 boys; total, 87. Two left the Home during the year. The number connected with the Home July 1, 1880, being 85.

Very great improvements have been made in the buildings and surrounding grounds within the year. At Christmas time we took possession of our new dining-room and kitchen and about the same time we moved into the new school-room. The swimming pool has been completed, which has been a source of interest and pleasure to the pupils; they have all been taught how to swim. Water has been introduced into the building, pumped by the windmill into an elevated tank and thence distributed through the house. No children in the District of Columbia have any better advantages than those at the Home, where every opportunity is given for acquiring a good and useful education. The children are under no particular restraint; the same government

which parents exercise in well-regulated households is all that pertains in this institution. We have no regular visiting days, but the Home is always open and ready for inspection. The health of the children has been good; those that required medical treatment were kindly cared for in "The Children's Hospital" of this city. The girls have made commendable progress in housekeeping, in making and mending their own clothing, and some of them using the sewing-machine quite successfully.

Mr. John P. Headley, jr., the teacher of shoemaking, reports that the time devoted to giving the pupils instruction covered four days in each week, and two hours each day being devoted to teaching; about as much time, however, was required in preparing the work for the pupils. This was all the time the children could spare from their other studies, and the teacher spare from his other duties.

The economical manner in which the school was established and carried forward can be best understood by the following table:

Stock and material for the shoemaking school, in which 24 boys and 8 girls were taught in classes of 6 boys and 2 girls each, from March 1, 1880, to June 30, 1880.

	Cost.
6 shoe-hammers	$2 25
6 pairs pincers	3 25
6 last-hooks	90
6 knife-rubbers	60
6 shoulder-sticks	1 80
6 peg-cutters	2 40
6 rasps	2 50
6 straps with buckles	1 30
6 pair clamps	2 70
6 benches	12 00
8 pair lasts	2 80
14 knives	2 10
1½ pounds of thread	1 50
1½ ounces of bristles	1 50
1 package of pegs	35
6 pounds of nails	42
Buff and sheep leather	13 70
Sole leather	16 96
1 bottle ink, gum, and heel-balls	40
Measure-stick and strap	45
1 box of eyelets, punch and set	1 30
2 awls, seam-set, long stick, and compass	1 45
Awls and hafts	3 30
Wax, pattern paper	77
	76 70

Stock on hand June 30, 1880:

	Value.
6 shoe-hammers	$2 25
6 pairs pincers	3 25
6 last-hooks	90
Knife-rubbers	10
6 shoulder-sticks	1 80
6 peg-cutters	2 40
6 rasps	2 00
6 straps and buckles	1 30
6 pair clamps	2 50
6 benches	12 00
8 pair lasts	2 00
Knives	1 25
Thread, 50; bristles, 25; nails, 20; pegs, 10	1 05
Awls and hafts	1 25
Measure-stick, 45 cents; wax, 10	55

Eyelets, punch, and set	$1 10
Awls, seam set, stick and compass	1 45
Value of material on hand at close of school-term	37 15
Cost of materials used during the school-term	39 55
Total	76 70
Cost of tuition for school-term	$100 00
Pupils half-soled and heeled their own shoes, 28 pairs, at 75 cents	$21 00
Pupils made, complete, 16 pairs of shoes, at $2.50	40 00
	61 00
Net cost of tuition for school-term	$39 00

Mr. M. V. Buckley, the treasurer, makes the following report of receipts and payments for the year ending June 30, 1880:

The report of the treasurer for the year ending June 30, 1880.

RECEIPTS.

Congressional appropriation	$5,000 00
Maintenance fund	1,407 00
Making tree-boxes, tree-box stakes	4,323 00
Membership dues and other sources	63 50
Total receipts	$10,793 50

EXPENDITURES.

July, 1879:	
Bread, John Wills	$35 40
Meat, Joseph Weaver	36 72
Groceries, Buckey & Co	69 55
Hardware, Buckey and Marbury	28 18
Paints, oils, &c., R. Brace	34 11
Lumber, Thomas W. Smith	238 88
Lumber	81 50
Clothing for the children, W. Nordlinger	12 00
Pine wood (10 cords), Jacob Kengla	40 00
Rent of shop in the city to July 1, 1879	63 00
One cow, J. Peacock	40 00
Fireworks, Fourth of July	5 85
Carpentering, A. Remy	54 00
Superintendent, L. Barnes, and employés	77 00
August, 1879:	
Bread, John Wills	33 48
Meat, Joseph Weaver	44 28
Groceries, Buckey & Co	69 48
Hats for the children, W. F. Seymour	13 92
Crockery ware, &c., J. Nock	7 07
Lumber, Henry Miltenberger	264 28
Books and printing, blanks, &c	4 50
Carpentering, A. Remy	48 00
Superintendent, L. Barnes, and employés	62 00
September, 1879:	
Bread, John Wills	34 56
Meat, Joseph Weaver	45 18
Groceries, Buckey & Co	78 28
Horse-feed, hay, &c., D. B. Jackson	15 35
Plastering, whitewashing, &c., A. T. Barker	41 95
Carpentering, A. Remy	52 00
Superintendent, L. Barnes, and employés	81 00
October, 1879:	
Bread, John Wills	36 12
Meat, Joseph Weaver	46 80
Groceries, Buckey & Co	65 77
Hardware, Buckey & Marbury	30 78
Dry goods, bed-spreads, &c	33 00

Paints, oils, &c., R. Brace	$29 08
Piling lumber, &c	10 00
Lumber, Henry Miltenberger	237 05
Carpenter work, James M. McIntosh	46 00
Rent of shop in city, three months	63 00
Frame for building, A. Gleason	77 50
Erection of school-building, J. H. Howlett	1,500 00
Carpentering, A. Remy	54 00
Superintendent, L. Barnes, and employés	67 00
November, 1879:	
Bread, John Wills	43 40
Meat, Joseph Weaver	46 17
Groceries, Buckey & Co	92 72
Stone-work for school-building, R. A. Edmonston	149 00
Plastering school-building, Smith & Chamberlain	20 00
Medical services, Dr. A. B. Shekell	10 00
Repairing carriage, J. J. Cooke	30 00
Saws, repairing, &c	15 60
Horse-feed, hay, &c., D. B. Jackson	26 85
Carpenter work, R. S. Sebastian	45 00
Carpentering, A. Remy	48 00
Superintendent, L. Barnes, and employés	64 00
December, 1879:	
Bread, John Wills	43 77
Meat, Joseph Weaver	50 47
Groceries, Buckey & Co	100 75
Shoes for the children, B. Nordlinger	114 60
Lumber, Henry Miltenberger	197 95
Cistern, Seth Schell	110 00
Building flue, repairing chimney, &c., R. A. Edmonston	66 80
Hauling machinery and lumber	18 00
Insurance on buildings, Arlington Fire Insurance Company	12 50
Whitewashing, &c., R. Rowser	10 00
Carpenter work, R. S. Sebastian	40 00
Carpenter work, A. Remy	54 00
Superintendent, L. Barnes, and employés	68 25
January, 1880:	
Bread, John Wills	44 60
Meat, Joseph Weaver	54 40
Groceries, Buckey & Co	102 04
Hardware, Buckey & Marbury	43 26
Clothing for the children, W. Nordlinger	38 00
Clothing for the children, Mrs. Paulina Young	10 67
Tinning roof of school-building, John Harrington	156 00
Plastering partition in dining-room, White & Chamberlain	10 00
Paper-hanging, window-shades, &c	10 48
Brick-work at spring, R. A. Edmonston	10 00
Pump and attachment to wind-mill	15 06
Erection of wind-mill	51 00
Labor, advertising, postage, and sundries	34 44
Carpentering, A. Remy	54 00
Superintendent, L. Barnes, and employés	78 00
February, 1880:	
Bread, John Wills	46 48
Meat, Joseph Weaver	58 00
Groceries, Buckey & Co	128 40
Paints, oils, &c., R. Brace	12 31
Stoves, and repairs, Memert & Korff	40 84
Fire-wood, Jacob H. Kengla	40 00
Lining tank with zinc, R. E. Talbot	25 00
Putting up machinery, Breckham & Giles	77 25
Carpenter work, R. S. Sebastian	64 00
Carpentering, A. Remy	48 00
Superintendent, L. Barnes, and employés	76 00
March, 1880:	
Bread, John Wills	43 12
Meat, Joseph Weaver	45 00
Butter, Roth & Gohegan	6 72
Horse-feed, hay, &c., D. B. Jackson	87 64

Lumber, Henry Miltenberger	$300 21
Piling lumber, R. Clinton	5 00
Printing, Rufus L. Darby	4 00
Material for shoemaking-school, George King	43 48
Teacher of shoemaking, John P. Headley, jr	25 00
Teacher of gardening, John MacTaggart	20 00
Carpenter-work, R. S. Sebastian	40 00
Carpentering, A. Remy	54 00
Superintendent, L. Barnes, and employés	80 00
April, 1880:	
Bread, John Wills	50 26
Meat, Joseph Weaver	46 00
Groceries, Buckey & Co	96 46
Hardware, Buckey & Marbury	134 96
Dry-goods, Brown & Lewis	268 47
Paints, oils, &c., R. Brace	41 48
Hats and caps for the children, W. F. Seymour	41 42
Crockery ware, J. Nock	34 76
Plaster, horse blanket, &c	42 29
Straw, J. Magruder	10 00
Coal, Mayfield & Heister	139 00
Piling lumber, R. Clinton	2 50
Lumber, Joseph & J. E. Libbey	385 09
Lumber, Thomas W. Smith	322 61
Teacher of shoemaking, John P. Headley, jr	25 00
Teacher of gardening, John MacTaggart	40 00
Carpentering, A. Remy	52 00
Superintendent, L. Barnes, and employés	90 50
May, 1880:	
Bread, John Wills	56 42
Meat, Joseph Weaver	54 80
Butter, Roth & Gohegan	18 21
Fire-wood, Charles Shea	35 00
Horse feed, hay, &c., D. B. Jackson	84 25
Repairing machinery, Beckham & Gates	19 00
Piling and moving lumber, J. Johnson	5 00
Stove-fixtures and repairs, Memert & Korff	9 90
Rent of shop in city and putting it in repair	142 70
Lumber, Henry Miltenberger	139 75
Lumber, Willett & Libbey	100 01
Teacher of shoemaking, John P. Headley, jr	25 00
Teacher of gardening, John MacTaggart	40 00
Carpentering, A. Remy	54 00
Superintendent, L. Barnes, and employés	81 00
June, 1880:	
Bread, John Wills	59 20
Milk, E. Endres	35 00
Hardware, Buckey & Marbury	83 56
Hats for the children, Mrs. Paulina Young	4 00
Coal, M. Smith	5 77
Horse-shoeing, John Lynch	16 00
Repairing carriage, W. H. Garges & Brother	10 00
Sewing-machine	35 00
Carpenter-work, R. S. Sebastian	30 50
Seeds, plants, manure, &c	16 23
Materials for shoemaking school, George King	21 22
Teacher of shoemaking, John P. Headley, jr	25 00
Teacher of gardening, John MacTaggart	40 00
Carpentering, A. Remy	52 00
Superintendent, L. Barnes, and employés	104 33
Total payments	$10,793 50

JOSEPH M. WILSON,
JOHN HITZ,
LUCY S. DOOLITTLE,
Committee on Annual Report.

Q.—REPORT OF THE SEALER OF WEIGHTS AND MEASURES.

WASHINGTON, D. C., *September* 14, 1880.

GENTLEMEN: I have the honor to report the doings of my office for the year ending August 31, 1880.

There has been received by me as fees for the above time as follows: September, 1879, $154.02; October, 1879, $202.12; November, 1879, $257.67; December, 1879, $253.60; January, 1880, $197.69; February, 1880, $129.20; March, 1880, $131.99; April, 1880, $204.35; May, 1880, $185.92; June, 1880, $224.20; July, 1880, $166.96; August, 1880, $101.65; making a total for the year, $2,209.37.

There were a great many articles (used for weighing and measuring) condemned and destroyed for not being of the proper standard, namely, half and quarter peck measures, 21; quart measures, 23; pint measures, 15; spring-balance scales, 30; platform scales, 2; charcoal measures, 2; half-bushel measures, 3; half and peck measures, 4; half-gallon measures, 3; and half-pint measures, 3.

The coal scales found out of order from time to time are adjusted in all cases by the owners of said scales as soon as can be done, as it is to their advantage to see that their scales are in good condition.

I would respectfully suggest that you recommend to Congress that the Commissioners of the District of Columbia be authorized to make and enforce by fines, penalties, &c., such regulations relating to the duties of sealer of weights and measures, clerks of markets, and market masters as they may from time to time deem advisable for the better protection of those interested. A great many points arise from time to time that could be adjusted without much delay if the Commissioners were fully empowered to make and enforce such laws, ordinances, &c. Now, for instance, the sale of canned goods, we find nothing in the laws regulating their sale. One packer sends his goods to our city and markets, his packages marked (as a two dozen 3-pound can of tomatoes), and very plainly marked, too, and if you were to weigh one of those cans it would not weigh more than two pounds nine ounces. Another may have his of more or less, as the case may be. Let those packages be offered for sale in the markets, or elsewhere, you can readily see how confusion arises—the person selling a can of tomatoes for 10 cents makes as much money as the one who charges 15, as the difference is not so much in the quality as the quantity. If the laws were so that persons would be required to have their articles of a certain weight or measure, then housekeepers in buying would be protected from those who practice sharpness. The baker who offers bread of less weight than that laid down by law has his bread confiscated and a penalty of $2 a loaf imposed; the butcher who sells light weight is liable to punishment as a common cheat, and may be sent to prison as such; if a person offers butter in or around our markets for sale that is not of the proper weight, their butter is confiscated and sold and the proceeds of said sale paid into the general fund of the District of Columbia; but in the matter of canned goods, &c., it is very plain to everybody that when you have a law that says a bar of soap should weigh a pound, a box of mustard a quarter pound, a bottle of oil, &c., should hold a pint, a can of tomatoes should weigh two or three pounds (as the case may be), a bottle of preserves to hold a quart; this seems to be very plain—just as

much so as a dozen of eggs counts twelve, half peck of potatoes weighs seven pounds, a pound of butter is 16 ounces, or a yard of cloth is 36 inches; and still further, for instance, the manufacturers of bricks are required to have their molds of a proper size and shape, the brewers and distillers their barrels of a regular size, and why not the packer of peaches, corn, tomatoes, beans, honey, pickles, &c., be required to give the consumer an idea of the quantity they are paying for? There can be nothing wrong in this. Gentlemen, this is one of those trades that I cite to show that the making and enforcing of ordinances should be in the hands of some power closer than Congress, as it takes so long to get anything in the shape of laws passed upon by that body, and when acted and passed they become like the dog, oleomargarine, bird, and other laws that require amendments to have them properly enforced.

I would also call your attention to the sale of oysters (in the shell) on our wharves, and would suggest that a sworn measurer could be placed at that place to look after that interest. Hoping that these remarks will be looked upon as a matter of justice to all concerned,

I am, very respectfully, your obedient servant,

JAMES SMALL,
Sealer of Weights and Measures, D. C.

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

R.—ESTIMATE OF THE ENGINEER IN CHARGE OF THE WASHINGTON AQUEDUCT AND THE BRIDGES IN THE DISTRICT OF COLUMBIA.

OFFICE OF THE CHIEF OF ENGINEERS,
UNITED STATES ARMY,
Washington, D. C., July 27, 1880.

SIR: Your letter of the 14th instant (No. 12767) addressed to Lieut. Col. Thos. Lincoln Casey, Corps of Engineers, requesting estimates of the amount required for the support of the Washington Aqueduct and of all bridges in the District under his charge, has been submitted to this office.

The estimates referred to are as follows:

WASHINGTON AQUEDUCT.

For engineering, maintenance, and general repairs	$20,000
For commencing the construction of the dam at Great Falls, across the Virginia channel of the Potomac	50,000
For improving grounds around gatekeeper's dwelling at the receiving reservoir	1,000
For building wooden fence around the government land at the receiving reservoir	7,000
For soiling, sodding, and seeding the embankment and excavation slopes of the distributing reservoir and conduit	15,000
For building a wrought-iron and masonry bridge over the waste-channel at the receiving reservoir	11,000
For building an overfall over the connecting conduit for the waste channel of the receiving reservoir	2,000
For continuing the macadamizing of the conduit road	10,000
Total	116,000

BRIDGES.

For Anacostia, Benning's, and Chain bridges..... $2,000

By direction of Brigadier-General Wright.

Very respectfully, your obedient servant,

H. M. ADAMS,
Captain of Engineers.

Hon. J. DENT,
President Board of Commissioners of the District of Columbia.

S.—REPORT OF OPERATIONS OF THE ENGINEER DEPARTMENT.

UNDER THE DIRECTION OF MAJ. WILLIAM J. TWINING, CORPS OF ENGINEERS U. S. A., ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

A.—REPORT OF LIEUT. RICHARD L. HOXIE, CORPS OF ENGINEERS, U. S. A., ASSISTANT TO THE ENGINEER COMMISSIONER OF THE DISTRICT OF COLUMBIA.

ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, September 15, 1880.

MAJOR: I have the honor to submit the following report of operations for the fiscal year ending June 30, 1880, together with estimates for the ensuing year:

Summary statement of operations and estimates.

Number.	Description.	Expenditures, June 30, 1880.	Estimated for 1881–'82.
1	Engineer Department, salaries	$47,960 62	$29,350 00
	contingent expenses	3,824 55	4,500 00
2	Water Department, all expenses	* †166,338 18	†48,790 00
3	Material for permit work, sewers	5,521 05	.....
4	Cleaning and repairing lateral sewers and basins	14,585 74	30,000 00
5	Lateral sewers, construction of ‡	15,524 05	20,000 00
6	Boundary-street sewer §	61,997 65	100,000 00
7	New York avenue sewer and outlet	70,019 35	12,000 00
8	Dredging channel across flats and completing canal outlet	4,442 31	.....
9	Public hay-scales	111 00	500 00
10	Repairing Tiber sewer	3,304 34	.....
11	Dredging James Creek Canal	.....	10,000 00
12	Markets	6,874 68	7,400 00
13	Cleaning tidal sewers	.....	3,000 00
14	Pumps	2,494 44	3,000 00
	Total	236,659 78	219,750 00

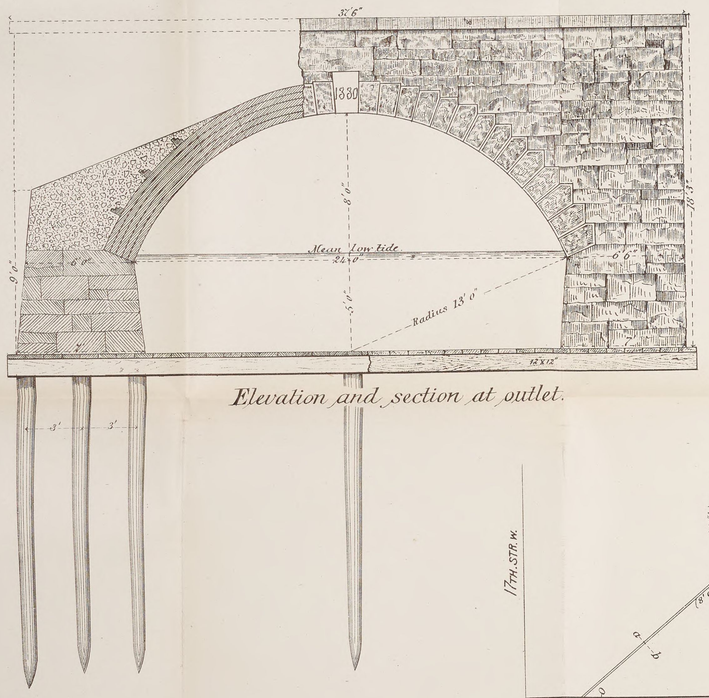
* Includes $32,180.83 of excessive water-tax refunded, and $74,025 interest paid to sinking-fund.
† These expenditures and estimates, not included in footings, being charged to special water-fund.
‡ $750 charged to appropriation of 1878–'79.
§ $39,926 charged to appropriation of 1878–'79.

SPECIAL ASSESSMENTS.

The revision of the special assessments has been continued in conformity with the acts of Congress approved June 19, 1878, and June 27, 1879, and the rules adopted by the Commissioners, as given in my former report. The pressure of work to complete the revisions before the coming session of Congress has prevented the preparation of the tabulated statements of revisions in time for incorporation with this report.



NEW YORK AVENUE INTERCEPTING SEWER.



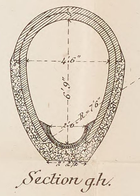
Elevation and section at outlet.

CROSS SECTION OF CANAL, AT OUTLET.

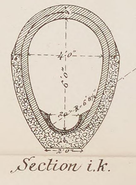
Section a.b.

Section c.d.

Section e.f.



Section g.h.



Section i.k.

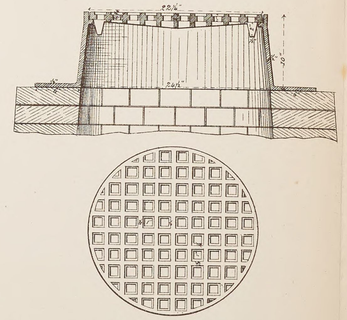


Section l.m.

Section n.o.

Scale of plan. 0 1 2 3 4 5 6 7 8 9 1000 ft.

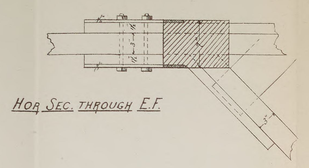
" " sections. 0 1 2 3 4 5 10 15 ft.



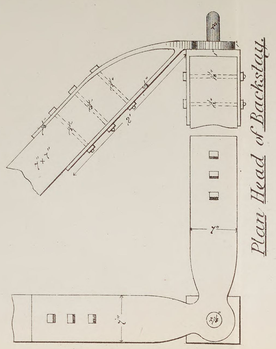
Plan and Section of Manhole Top castings.

W.T.O. Bruff. Del.

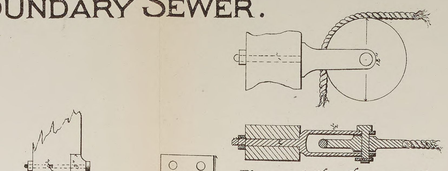
PROPOSED PLAN FOR EXCAVATION OF BOUNDARY SEWER.



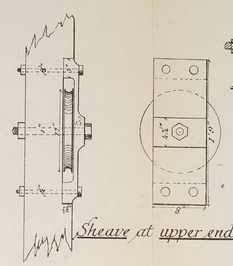
HOR. SEC. THROUGH E.F.



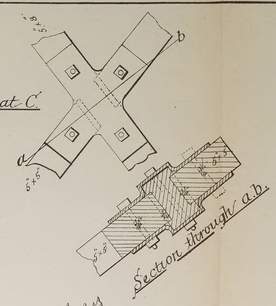
Plan Head of Backstays.



Plan and Sec. Sheave at D.

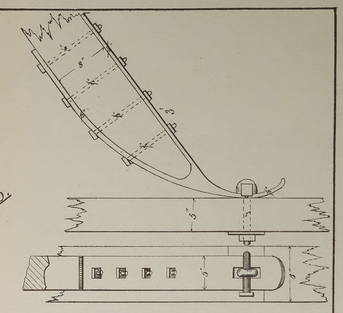


Sheave at upper end of mast.

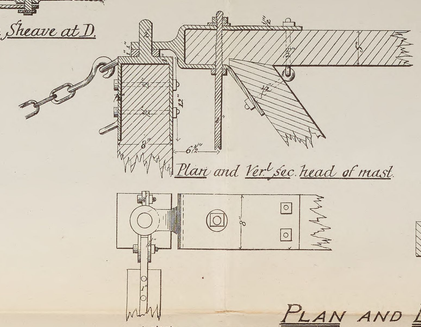


Plan of Spider at C.

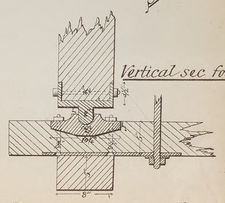
Section through a.b.



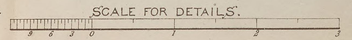
Plan of Foot of Backstay.

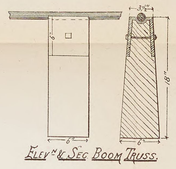


Plan and Vert. sec. head of mast.

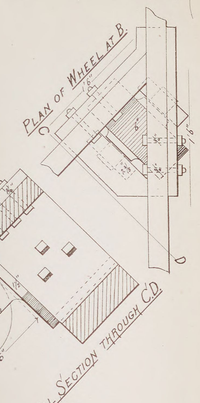


Vertical sec. foot of mast.





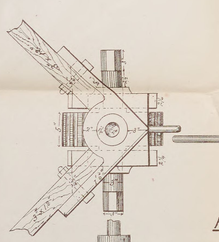
Elev.n & Sec. Boom Truss.



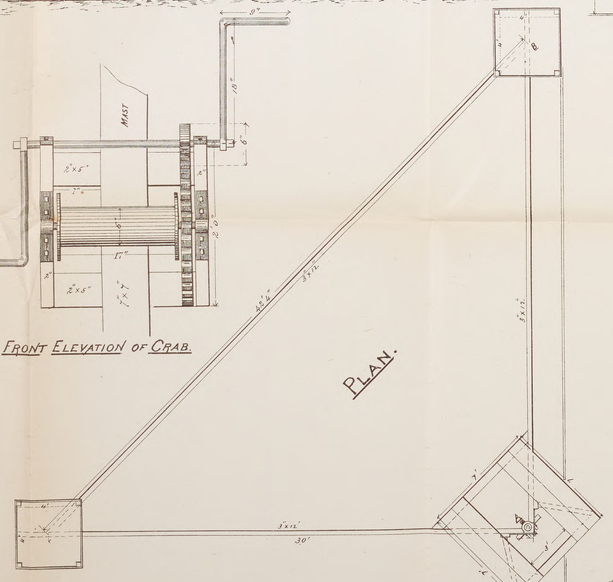
PLAN OF WHEEL AT B.

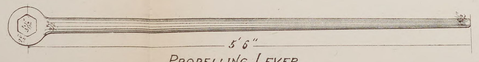
VERTICAL SECTION THROUGH C.D.

PLAN AND ELEVATION OF WHEEL AND CASTING AT A.

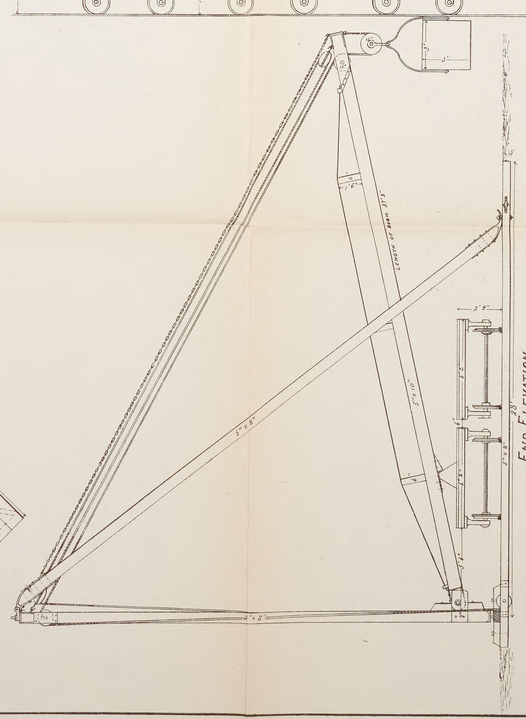


FRONT ELEVATION OF CRAB.

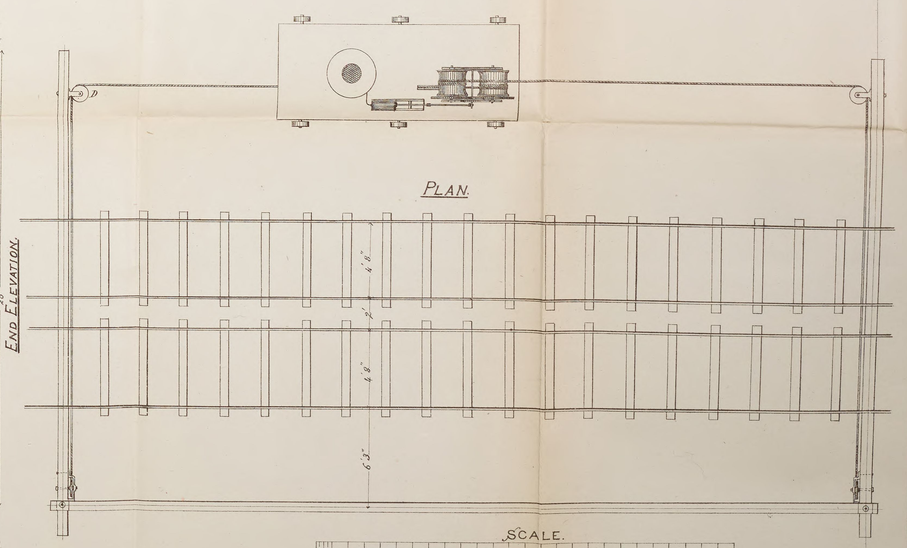




5'6" PROPELLING LEVER.

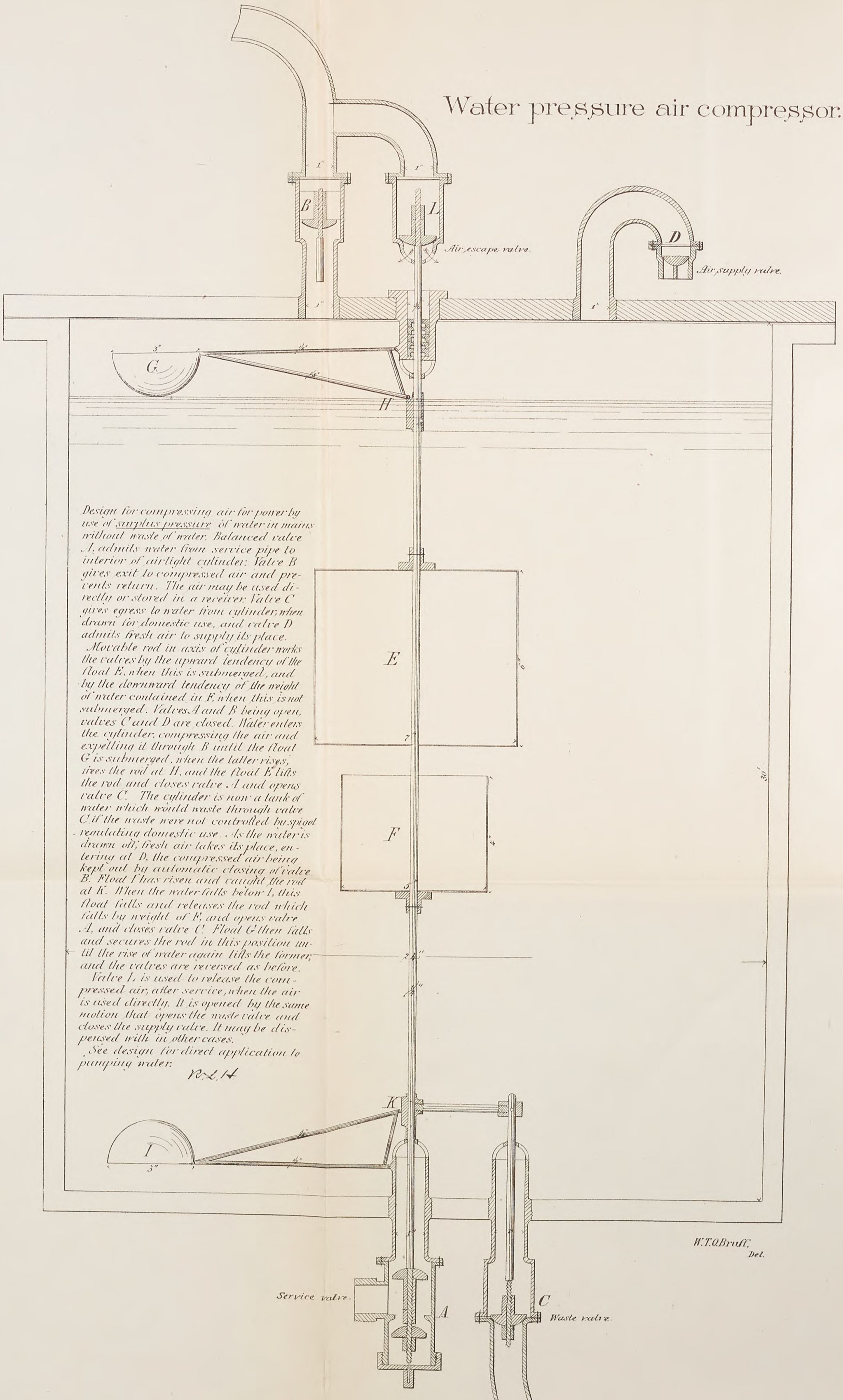


END ELEVATION.



W.T.O'Bruff. Del.

Water pressure air compressor.



Design for compressing air for power by use of surplus pressure of water in mains without waste of water. Balanced valve A, admits water from service pipe to interior of airtight cylinder: Valve B gives exit to compressed air and prevents return. The air may be used directly or stored in a receiver: Valve C gives egress to water from cylinder; when drawn for domestic use, and valve D admits fresh air to supply its place.

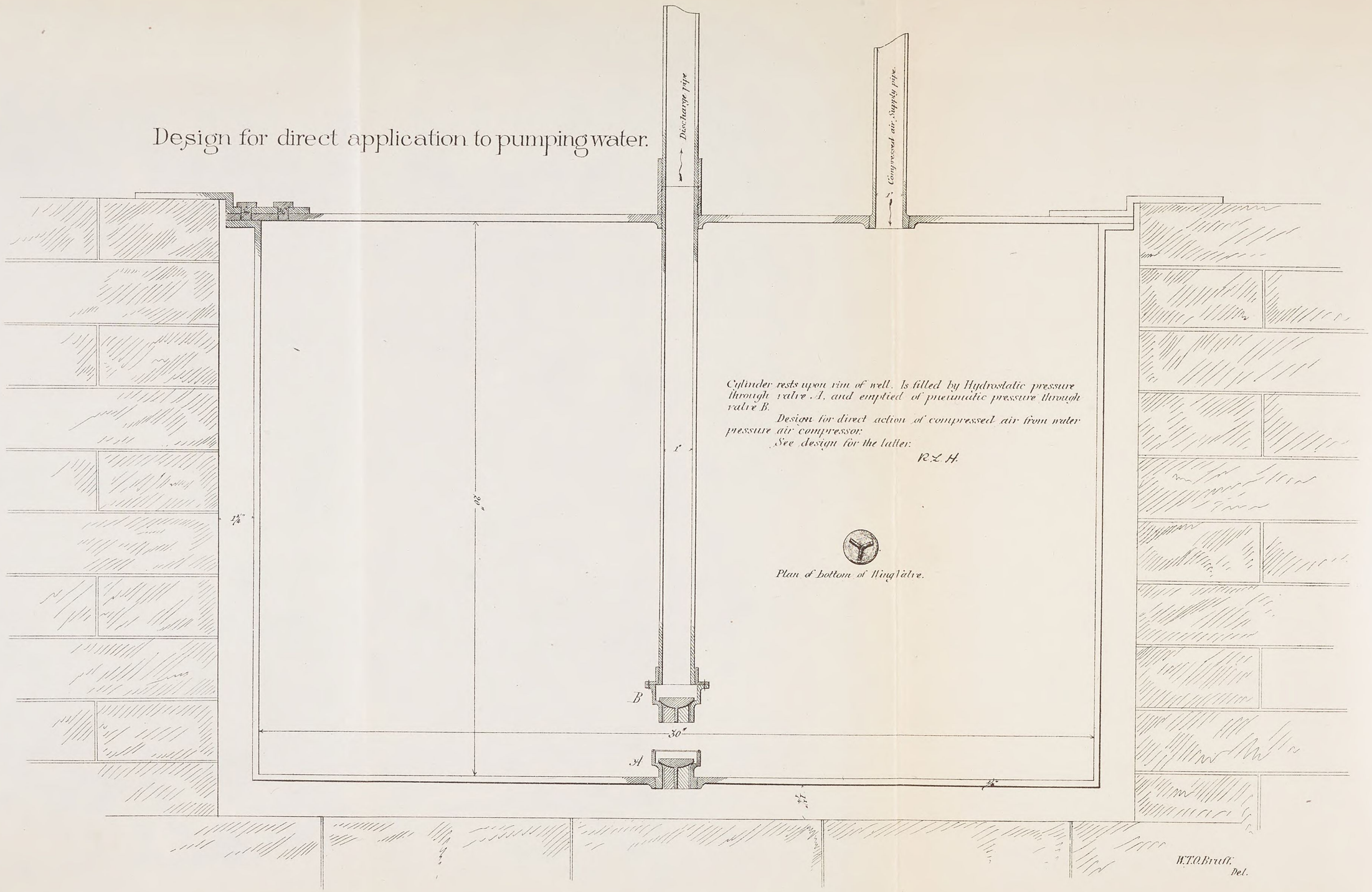
Movable rod in axis of cylinder works the valves by the upward tendency of the float E, when this is submerged, and by the downward tendency of the weight of water contained in F, when this is not submerged. Valves A and B being open, valves C and D are closed. Water enters the cylinder, compressing the air and expelling it through B until the float G is submerged, when the latter rises, frees the rod at H, and the float F lifts the rod and closes valve A and opens valve C. The cylinder is now a tank of water which would waste through valve C if the waste were not controlled by spigot regulating domestic use. As the water is drawn off, fresh air takes its place, entering at D, the compressed air being kept out by automatic closing of valve B. Float I has risen and caught the rod at K. When the water falls below I, this float falls and releases the rod which falls by weight of F, and opens valve A, and closes valve C. Float G then falls and secures the rod in this position until the rise of water again lifts the former, and the valves are reversed as before.

Valve L is used to release the compressed air, after service, when the air is used directly. It is opened by the same motion that opens the waste valve and closes the supply valve. It may be dispensed with in other cases.

See design for direct application to pumping water.

R.L.H

Design for direct application to pumping water.



Cylinder rests upon rim of well. Is filled by Hydrostatic pressure through valve A. and emptied of pneumatic pressure through valve B.

Design for direct action of compressed air from water pressure air compressor.

See design for the latter.

R.L.H.

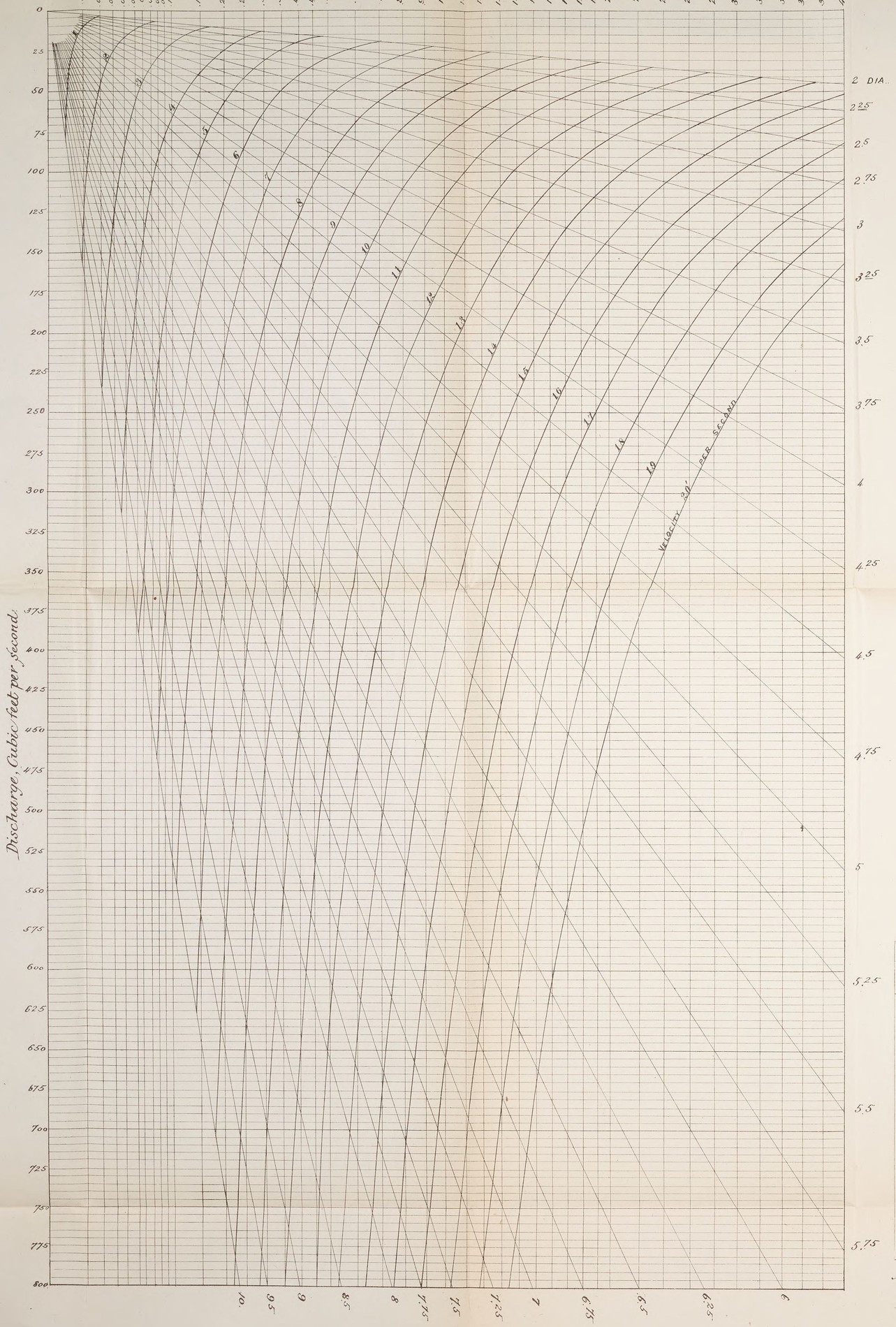
Plan of bottom of Ring Valve.

W.T.O.Bruff. Del.

ct a

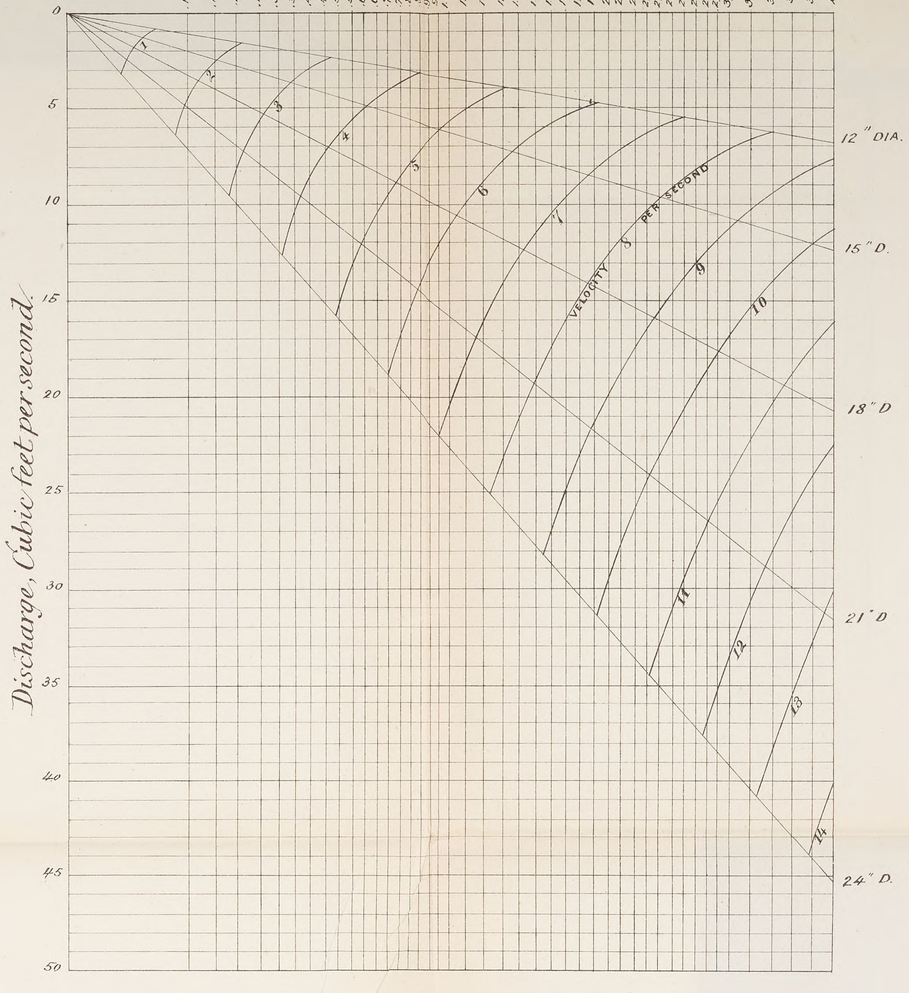
Circular Sewers running full.

Grades in feet per hundred.



Pipe Sewers running full.

Grades in feet per hundred



Kutter's Formula.

$$v = \frac{41.66 + \frac{.002807}{s} + \frac{1.8113}{n}}{\left(41.66 + \frac{.002807}{s}\right)\frac{n}{\sqrt{R}} + 1}\sqrt{R.s}$$

$n = .013$

Dimensions of Egg Shape Sewer.	Half Pipe Invert. diameter.	Radius of sides.	Perimeter.	Area.	Hydraulic Radius.	Equivalent Circular Sewer. diam.
2.00×3.00	12"	3.77	8.17	4.64	.567	2.374
2.25×3.375	15"	4.64	9.12	5.92	.649	2.70
2.50×3.75	15"	4.85	10.32	7.23	.70	2.95
2.75×4.125	15"	4.83	11.07	8.71	.787	3.27
3.00×4.50	18"	5.57	12.14	10.41	.857	3.57
3.25×4.875	18"	5.73	12.95	12.13	.937	3.87
3.50×5.25	18"	5.89	13.95	14.18	1.01	4.18
3.75×5.625	18"	6.13	15.07	16.50	1.09	4.51
4.00×6.00	20"	6.63	16.10	18.63	1.15	4.78
4.50×6.75	2'0"	7.62	18.13	23.33	1.28	5.34
5.00×7.50	2'0"	8.05	20.03	28.15	1.40	5.84
5.50×8.25	Trap Invert R=1.375	8.25	21.82	34.74	1.60	6.57
6.00×9.00	" " R=1.50	9.00	23.79	41.35	1.738	7.15

Table of dimensions of Egg shape Sewers with half pipe invert, and equivalent Circular Sewers.

DRAINAGE AND SEWERAGE.

Work upon the large auxiliary main sewers now in course of construction is progressing favorably. The New York avenue sewer is completed to Fourteenth street west, and the Boundary sewer has reached Fifteenth street east. Minor lateral sewers have been constructed in various parts of Washington and Georgetown. Details of construction are shown upon the accompanying plans, (see appendix No. —).

The general features of the present plan of drainage and sewerage for the District of Columbia have been heretofore presented. Rainfall and sewage are carried off in the same conduit, properly constructed for the purpose, to deep water in the Potomac River. The work now in progress, besides extending the system, is intended to increase the capacity to carry off storm-water, to adapt the cross-section of the sewers to the variable flow of dry weather and storms, to lower the plane of flow in the low grounds, and to gradually introduce the proper means of thorough aeration of the interior of the sewers.

It has been already explained that this work is necessary for drainage and can be used for sewerage until sufficient reason appears for separating the two systems. Should it be decided to do this, it will be necessary to add such intercepting sewers as may be required for conducting the sewage to the pumps, and a separate system of sewers for areas draining below tide level, together with the necessary pumps and appurtenances, and a conduit from the pumps to the point at which it may be decided to locate the out-fall. The present system now constitutes a part of what would be the new one, and would in the new one continue to serve a double purpose down to the level of high-tide.

The question for the future is the necessity for the change of plan of disposition of sewage, which would involve the additional expenditure.

To every large city adopting the water carriage for sewage, a similar question is presented, but the circumstances of each must govern the decision. In one the supply of water may be 10 gallons per capita per diem, the source of supply distant and limited, and the inland river flowing past the city may be an important fishing-ground as well as a source of water supply to other towns lower down the stream. In another the supply may be 160 gallons per capita per diem, the source of supply near at hand and practically unlimited, and the river flowing past the city an estuary of which the comparative volume of water defies injury to the fishing interest, and the water itself is not used as a portable water by other towns lower down the stream.

In the one case, the limited water supply when discharged through the sewers, after its use for all household purposes, street washing, and manufactures, becomes a concentrated poison which must be kept from contaminating the river. In the other case the copious water supply will dilute and neutralize in part the poisonous mixture, which may then flow into the estuary, harmless under proper conditions. In the former case the proper disposal of the sewage is a grave problem of modern civilization. In the latter case the solution of the problem is easy. Between these two extreme conditions there are many degrees of comparative immunity from the troubles of the former, and many varying solutions of the problem.

The first which suggests itself is the removal of the nuisance to some other locality, where it will not be offensive to the originators, but unless some proper disposition can be made at the end of the route this is a simple transfer, which does not solve the problem.

There are sewage farms to which the flow of the sewers is conducted,

and, by a system of irrigation, made to fertilize large crops of rye-grass, and other produce, while the filtered water flows into the adjoining water course. The flow of the sewers is continuous and the continuous use of the sewage compulsory. The water supply of the town can only be increased at the expense of diluting the sewage and increasing the embarrassing surplus. As a fertilizer concentrated in a meager water supply, the sewage is worth about one cent per ton, if it can be supplied as it is wanted, and the surplus otherwise disposed of, but exhaustive investigation shows that it has very generally been used in irrigation at a loss. The sewage farm has also to contend with an universal prejudice against the use of the produce, and a deep seated aversion to the proximity of the farm. Where these farms are considered an important factor in the disposal of sewage, it is found by competent sanitary authority that they are innoxious and comparatively inodorous, and the produce therefrom a proper food for man and beast.

The Craigentinny meadows were made the subject of an exhaustive inquiry by the war department during the time that Lord Macaulay was member for Edinburgh and parliamentary secretary for that department. Complaints were made that the proximity of the irrigated meadows, and the effluvium from them produced disease in excess amongst soldiers quartered in the neighboring barracks. Official inquiry was made by army medical officers, who took the returns of health and mortality, for twenty years back, from barracks situate in different parts of Great Britain where troops similar in numbers and performing similar duties had been quartered, and these returns were tabulated, the results obtained proving that the barracks adjoining the Edinburgh sewage meadows had the lowest sick and death rate in the list, so that the allegation against the Craigentinny meadows fell to the ground.*

Nevertheless, this case, which is one of the most crude and primitive irrigation, is by implication admitted to be a nuisance, though not injurious to health. It may be stated, without argument, that the contents of the sewers are not less offensive at the outfall, however remote this may be. We have a less offensive natural sewage farm on the flats which border this city. The irrigation is intermittent and scanty by the spread of the tide, and the produce a rank natural growth of tall grasses. This will be obliterated with the extension of the projected canals to deep water.

When the sewage comes too fast for the farmer, it is sometimes turned upon filtration areas and strained as rapidly as the water can be made to filter through it with the help of expensive underdraining, all idea of utilizing the sewage as a fertilizer being abandoned. If land in kind unsuitable or quantity insufficient for the purpose cannot be had, and the inexorable condition of purification remains, mechanical and chemical devices are resorted to at still greater expense and with doubtful results. Most of these methods clarify without purifying. All are expensive and net a loss, whatever the enterprise associated with them. All require still greater parsimony in the use of water, because the greater the dilution the greater the difficulty of dealing with the sewage.

Since 1866, the sewage of London has been carried by intercepting sewers to outfalls on the Thames, lower down the stream, between the towns of Woolwich and Erith. Here it is turned into the river just as it flows from the sewers, having formerly been turned into the river along the water front of London. The city has simply an outfall remote from the metropolis and contiguous to smaller towns. The tide of the Thames at London Bridge has a rise and fall of about 17 feet. At Yantlett Creek it is 14 feet, and at Teddington weir 4 feet.† It fills and empties the great reservoir between the varying levels of low and

* Report of Local Government Board of Great Britain, 1876.
† Discharge of Sewage into Tidal Rivers, by H. Law.

high tide, confined between the banks of the river and the sea, twice each day. The daily flow of the river is an insignificant proportion of this ebbing and flowing volume of water, which comes therefore mainly from the sea, driving back the river water and its contents, which oscillate up and down the stream.

This was the principal feature attending the discharge of the sewage along the water front of the city, which determined the locations of the present outfalls. They are so far down the river that sewage discharged at the proper stage of the tide, will not return to London on the flood. The sewage is necessarily impounded in reservoirs until the time for discharge, and becoming more offensive in such confinement, the accumulated mass is precipitated all at once into the river, under the worst possible conditions for assimilation by the river water.

In a recent paper read before the Society of Arts, Maj. Gen. H. Y. D. Scott writes as follows concerning this matter:

* * * * * * *

It is true that, inasmuch as the sewage is now discharged into a larger body of water than formerly, and at a point more distant from the great center of population, the evil effects are considerably mitigated, but they are the same in effect.

* * * * * * *

The metropolitan board, on the other hand, contend that the discharge of the raw sewage is neither damaging the river nor the health of the dwellers on its banks, and Sir Joseph Bazalgette maintained at the Institution of Civil Engineers "that the bed of the river had improved of late; that the improvement was not due to systematic dredging; and that the mud banks were not formed by sewage." * * *

General Scott then proceeds to show what can be done to purify the sewage by chemical and mechanical agencies, assuming the importance of doing so, before discharging it into the Thames. This paper appears to have received marked attention, and the old controversy is renewed with great vigor.

It is clear enough, in common sense, that the simple transfer of sewage from the immediate vicinity of a large city to a distant outfall near small towns is a measure of vicarious relief. If the sewage, after all, must be purified before discharging it into the river, a nearer point of discharge may answer the purpose, remote from other towns. It is equally clear that when a system has been adopted, like that of water carriage for sewage, at great expense, supplementary methods which may tend to embarrass its operation should not be hastily decided upon. The success of the London plan depends upon the free use of water, and the outfall sewers are made of sufficient size to carry it. Their cost was over $20,000,000, in addition to the cost of the city sewers and drains, but this liberal expenditure, while it accomplishes only the transfer of a so-called nuisance from one point to another was necessary, in order to impose no restriction upon the use of water. The system was devised about twenty years ago, and contemplated the use of covered reservoirs at the outfall, and a possible defecation of their contents by lime or other chemical agent *if the fertilizing contents should become commercially valuable*. General Scott's supplementary plan assumes a first cost for tanks of $500,000, and a small profit thereafter upon the process of *clarification* by the sale of resulting fertilizers. The daily dry-weather discharge of the sewers is 120,000,000 gallons, a large quantity to deal with, and such enterprises have, heretofore, been uniformly commercial failures. More than this, the artificial clarification proposed is of greater ost with a free use of water, and tends to discourage it, and the *clarified* water still contains seven-eighths of the salts of sewage.

The water supply of London is about 30 gallons per capita. That of Washington and Georgetown is five times this amount per capita, and

there is here but little trade refuse. Other conditions here are much more favorable, besides the great disparity of population. The average rise of the tide is 3 feet instead of 17, and the average daily flow of the Potomac is greater than that of the Thames. The ebb and flow of the tide in the Potomac will fill and empty, twice each day, a reservoir 3 feet deep, the upper end of which is at the Little Falls. This reservoir, above the Aqueduct Bridge, will have an area of about 10,800,000 square feet. Below the bridge and opposite the new water front of Washington and Georgetown it will have an area of about 4,400,000 square feet. The united tidal capacity of these areas is about 162,800,000 cubic feet. This is less than the mean daily flow of the Potomac, so that the tidal accumulation, occurring twice each day in this part of the river, is ordinarily one half composed of down-stream flow of pure water. With a low-water sectional area of 24,500 square feet, the river channel opposite the new water front will contain about 539,000,000 cubic feet of water. The mean daily flow of the river will displace and renew this whole volume of water about once in four days. This is a condition of affairs far better than that of the city of London in the same respect. If, then, that city is still debating the question whether the crude sewage of London may be turned with impunity into the Thames, not with respect to possible injury to the city of London, but injury "to the river and the dwellers on its banks" where the actual outfall of the sewage is, and the metropolitan board is on the affirmative side of the question, we may properly postpone the question of a distant outfall here.

Here, as at London, the success of the present plan depends upon the thorough assimilation of the sewage by the river water and the action of the atmosphere upon it. No other agents than water and air are employed for rendering the sewage innoxious. The problem is submitted to the laboratory of nature. Opponents of the plan contend that water has no purifying power, no power of neutralizing sewage; but their theories are controverted by the stubborn logic of facts. Water does purify itself, and in a marvelously short space of time. Whether it destroys the impurities contained in it, or exposes them to destruction by the oxygen it contains, or by animal and vegetable organisms, it is none the less the powerful agent of purification. This is too well known to require argument, in the case of running water; but I have seen it stated that the water of the Thames, off London, is shipped for drinking-water for long voyages, and while barreled up destroys the impurities contained in it, and becomes sweet and clear.

In the auxiliary methods of distant outfall, with its pumps and intercepting sewers, and of sewage farms or supplementary tanks and chemicals for clarifying or purifying, economy of cost is proportional to economy in the use of water, so that these devices involve a great expenditure for methods which handicap the general principle. Clearly it is good judgment to make use of every available expedient to insure the best conditions for success under the present plan, and to exhaust every expedient before changing front and abandoning the principle, or embarrassing its operation with other devices. We must solve the problem of what to do with the sewage before we can tell whether it is necessary to take it anywhere for the purpose.

In the meanwhile, the proper disposition of sewage is still engaging the attention of able minds in localities where the pressure of population upon limited natural resources advances their necessities far beyond our own, and we shall profit by their conclusions. It may be that there is a future at hand when Nature's great circle of waste and re-

newal shall be narrowed in to the boundaries of human comfort; but as yet sanitary science is only stumbling on the threshhold of discovery, and teaches no more than present economy and convenience.

The local government board of Great Britain, in a report presented to Parliament in 1876, after an elaborate investigation, give the following conclusions:

* * * * * * *

7. That town sewage can best and most cheaply be disposed of and purified by the process of land irrigation for agricultural purposes, where local conditions are favorable to its application, but that the chemical value of sewage is greatly reduced to the farmer by the fact that it must be disposed of day by day throughout the entire year, and that its volume is generally greatest when it is of the least service to the land.

8. That land irrigation is not practicable in all cases, and therefore other modes of dealing with sewage must be allowed.

9. That towns situate on the seacoast or on tidal estuaries may be allowed to turn sewage into the sea or estuary below the line of low-water, provided no nuisance is caused; and that such mode of getting rid of sewage may be allowed and justified on the score of economy.

As long as the precautions to be taken prevent the creation of a nuisance, so long may we postpone the costly conveyance of a refuse to other and distant points, to be utilized at a loss upon sewage farms or treated by artificial processes of doubtful results. It will not be an easy matter to overcome the prejudices of a neighborhood in the location of a sewage farm, and the simple transfer of the sewage to the river near Alexandria will never be accepted by the Alexandrians as a satisfactory solution of the problem.

The sewage of Washington and Georgetown is to be turned into deep water of the Potomac (see drainage map) at the natural outlets of the sewers, at four points, on the Potomac front, where the storm water of the corresponding drainage areas has its exit. The Boundary intercepting sewer is to convey, ordinarily, no sewage whatever to its outlet. It is simply a water-course to the Eastern Branch, into which the sewers of its drainage area will overflow in time of storms. An intercepting sewer along the Eastern Branch, with overflows for storm water, will carry the dry-weather flow of the sewers in the contiguous drainage areas to deep water below the bridge; and a similar intercepting sewer along the basin below the Long Bridge will turn the corresponding dry-weather flow into the James Creek Canal.

Under this plan each of the principal main sewers, following the line of natural drainage, discharges through a broad and deep channel into deep water, at intervals along the water front. This is advantageous in diffusing the sewage through the water in the main channel. The sewage is checked for a time in the outlet canals by the influx of the tide, which dilutes, while the efflux diffuses it.

The action of the James Creek Canal, the outlet of Tiber sewer, which is nearly completed to deep water, may be cited as illustrative of the present working of these canals. The canal is 7,450 feet long and should have a depth of 6 feet at low tide, but has been silted up to much less than this and requires dredging. The tide makes up into Tiber sewer above the head of the canal about 5,000 feet. The sewer is an elliptical arch of 30 feet span, on side walls 3 feet high, with a plank floor which, in the lower part of the sewer, is horizontal and about 3 feet below mean high tide. It is not of recent construction and may require modification.

About 3,000 feet above the head of the canal, bars of sand and gravel

form at certain short curves in the sewer, and while these bars remain, mud, consisting of fine sand and clay, will accumulate. With the removal of the bars the mud disappears. Some of it is arrested in the canal, but a large proportion of the deposit here is sand, which is dredged up and used for building purposes. The ordinary flow of Tiber Creek through the sewer is insignificant, but the storms are of great violence and bring down large quantities of coarse detritus. Sand and gravel are taken from the sewer and from the canal in large quantities, and are perfectly inoffensive when taken out, for some time after a storm, or after a few days' exposure to the air, at any time. It is all used for building and paving, and its value for this purpose more than pays the cost of removal. The dredging of the mud in the canal will be all outlay, but it is prevented from entering the river and can be conveniently dredged.

The ample water-way of the canals lowers the flood surface of water in the sewers, by giving ready exit through the low grounds, and at all times performs to the best advantage the office of a settling tank for the protection of the river channel, arresting sand and gravel and the detritus of the streets.

The James Creek Canal is apparently quite inoffensive from one end to the other, but the accumulated gases escaping from the mouth of the Tiber sewer, at the head of the canal, and which have been generated within it, suggest their own remedy in failing to appear throughout the open canal. If the arch were removed from the sewer this trouble would disappear with it. The necessity for the arch, to facilitate travel in the streets, entails the necessity for a thorough and systematic ventilation of the covered space. At present this part of the sewer has very little ventilation. It will doubtless be advisable to isolate the system of ventilation of the tidal portions of the main sewers, arresting the motion of the gases at the upper limit of the tide, and turning them into a ventilating shaft, introducing at the same point some mechanical device for inducing the assimilation of the sewage and its aeration by mechanical agitation. Grated openings at short intervals along the line of the arch will temporarily answer the purpose of ventilation.

The motion of the tides driving back these gases at the flood has been thought to be a disadvantage, but it is quite the reverse. Any agent which induces motion in these gases can be taken advantage of to withdraw them from the sewers and replace them with fresh air. The rise and fall of the tide is such an agent, and requires only intelligent control. It is just here that such an agent is needed, for it is probable that nearly all of the sewer gas not due to defective plumbing in houses is generated in the tidal sections of the sewers.

Above the influence of the tides the sewers have all a constant outflow and a size adapted to storm water. Their oval shape concentrates the dry weather flow of sewage in the invert, and the large air space above this is favorable to a prompt oxidation of such gases as may form during the short time occupied in flowing to tide-water. The grated manhole covers, at short intervals, effect a perpetual renewal of the air.

Water is liberally provided by the present rate of water supply, but is not now well distributed through the city. Owing to insufficient head in the mains the higher levels have not an adequate supply, but this will be remedied with the introduction of the new water supply for the District.

The principal main sewer of Georgetown (see drainage map) furnishes an example of the successful working of the system upon which London

still depends—air and water cure—without a distant outfall, and with very imperfect sewer construction. This is a large semicircular sewer on vertical side walls, with a flat wooden floor. It is more than fifty years old and requires constant repair. It follows the bed of the original water-course, and is of a size to carry the storm water, draining the greater part of the most thickly settled district of Georgetown. The fall is very rapid—about 150 feet in four-fifths of a mile. In its lower part the stream becomes a cataract which plunges under the water-wheels of two large mills, and receives the waste water from the tail-race of the mills before rushing over a rocky bed into the river channel, where the latter has a depth of thirty feet. The outlet of this sewer presents no evidence whatever of its character. The sewage disappears forever without a sign.

I attribute this result to the copious admixture of pure water in the sewer, the large size of the latter giving access to plenty of air; to the rapid conveyance of the diluted sewage into an unlimited quantity of pure water; and to the thorough assimilation of the sewage by the water and its aeration in transitu, induced by the mechanical agitation which it receives. Wherever the same conditions can be attained, it is reasonable to suppose that the same results will follow.

With the admixture of a *sufficient quantity* of pure water sewage becomes so diluted and diffused as to be harmless. At some point of dilution the scruples of even the opponents of water carriage for sewage must disappear. The fact is recognized in all such systems which provide for its conveyance to remote localities condemned to its special reception. The long lines of intercepting sewers and the outfall conduits are only of limited capacity, and are made to overflow at every convenient point into the nearest water-course whenever a moderate rainfall dilutes the sewage and increases its bulk beyond the capacity of the conduit.

As long, then, as sufficient water can be provided for the purpose at less expense than the cumbrous and complicated system of distant transfer to sewage farms and filtration areas it will be better to provide the water. For the next twenty-five years an additional supply equal to five times the present one would probably suffice. It can be brought in by a conduit one-half the length of that required for a sewage farm. The capitalized cost of the pumping alone for the distant removal of sewage, predicated upon a future water supply of 50,000,000 gallons per diem, would be about $1,300,000. This is the estimated cost of the new water supply, including an additional reservoir and extensive land purchases, and having an available capacity of 125,000,000 gallons per diem at 140 feet above tide. There can be no question as to which expenditure should precede the other.

To recapitulate, the work now projected and in progress contemplates the reclamation of the flats along the water-front of Washington and the rectification of the channel of the river. It provides for the effective drainage of Washington and Georgetown, and the adaptation of the system of drainage to sewerage as well; providing in such manner for the possible separation of the systems at some future time, that, while the combination of the two shall be made to the best possible advantage, all of the work done in that direction shall be applicable to the separate system of sewerage. It contemplates, as the indispensable prerequisite of any system of sewerage by water carriage and of any reasonable condition of health and comfort consistent with modern civilization, the introduction of a liberal water supply at a sufficient elevation.

WATER SUPPLY.

In my last annual report I submitted estimates for extending the conduit from the distributing reservoir to the high grounds north of Washington, and for laying a four-foot iron main thence to re-enforce the present mains. The necessity for this work is increasing, and the complaints of scarcity of water on the higher levels cannot be quieted by any temporizing policy applied to the distributing mains. While the result of introducing larger mains into the permanent distribution system will be an ultimate advantage, the present effect is only a meager addition to the supply of one locality at the expense of that of another, and satisfies nobody. The level of distribution of the necessary supply of water is rapidly falling with the steady increase of the quantity consumed. Any measure, like the application of meters, which will restrict the consumption, will raise this level; but with a free use of water the level must be sustained by increased conduit capacity, or by pumping. Pumping is not justifiable, except as a temporary expedient, for water consumed below the level of a possible gravity supply.

The Georgetown high service pumping district is above this level and will have to be maintained. The Washington high service district is below this level, and its creation is a temporary expedient to assist in eking out a scanty supply of water. The works belong to the high plateau just north of them, and which they are intended to supply. They are unable to perform the duty now imposed upon them, and while diverted to the supply of northern Washington, they cannot be of any service to the elevated district to which they belong. The cost of pumping the supply, so diverted, capitalized at 6 per cent. is about $122,000, whereas the cost of transportation to the city should suffice for the whole area of Washington now supplied by pumping; excepting, perhaps, a few houses in the immediate vicinity of the pumps. To reduce this question of pumping to a basis for comparison with a gravity supply, I assume that the present supply of 24,000,000 gallons per diem, which is inadequate, should be increased to 47,000,000. This amount can be brought to the city by the present mains, and is the limit of their capacity, for partial distribution by pumping. The case is, therefore, the most favorable one for the pumping plan, requiring no outlay for conduit pipes to the pumps.

Georgetown would continue to be supplied as at present; Washington would be divided into a high service and a low service district by the contour line sixty feet above mean high tide. For the supply of the low service district the 12 and 36 inch pipes would be used and would deliver, with a pressure equivalent to a head 100 feet above tide, at the foot of Capitol Hill, the center of the low service district, about 20,000,000 gallons per diem. This gives 40 feet head at the highest part of the low service district (60 feet above tide). The supply would be sufficient for many years.

The pumps for the high service would be located at Rock Creek on the line of the 30 inch main, and at an elevation of 45 feet above tide. This main would deliver to the pumps about 27,000,000 gallons per diem, which, raised by the pumps 100 feet, would be supplied to the high service district from a head of 145 feet above tide, the level of the present distributing reservoir. The supply would be sufficient for many years.

The cost of lifting 1,000,000 gallons of water 100 feet high cannot be safely estimated, for running expenses and interest on capital invested, at less than $12. One million gallons per diem—365,000,000 per annum—will

TOPOGRAPHICAL Map OF THE DISTRICT OF COLUMBIA

SHOWING THE

PROJECTED HARBOR IMPROVEMENT, SYSTEM OF MAIN DRAINAGE

AND

COUNTY ROADS AS CORRECTED TO 1880.

Scale

AVAILABLE SITE FOR PARK & RESERVOIR

Intercepting Sewer

PROJECTED HARBOR IMPROVEMENT

POTOMAC RIVER

EASTERN BRANCH

VIRGINIA

ALEXANDRIA

cost annually $4,380; capitalized at 6 per cent. this would represent $73,000.

If 9,000,000 gallons are pumped per diem, the capitalized cost will be $657,000. This cost will give a gravity supply of 50,000,000 gallons per diem at an elevation of 144 feet above tide. In the one case, the limit of supply to both high and low service is 30,000,000 gallons per diem, and in the other case the possible supply at an elevation of 135 feet above tide is 178,000,000 gallons per diem. In the one case the insecurity of pumps for the high service, and in the other the solid assurance of a conduit of masonry laid in the earth.

If the 27,000,000 gallons available be pumped to the high service, the capitalized cost will be $1,971,000, and the limit of supply to both high and low services would be 47,000,000 gallons per diem.

Additional reservoirs would be equally necessary under either plan, and the cost would be the same if these were located between the source of supply and the site of the pumps. If located beyond the pumps for the use of the high service, an additional large main would be required for a forcing main, not less than two and one-half miles in length.

From the foregoing, it appears that the use of pumps as compared with a gravity supply for Washington is more expensive, more hazardous, and of far less extensible capacity.

The plan proposed in my last annual report for a gravity supply is again recommended, the site for the small reservoir therein proposed to be secured at once.

In this plan I have suggested the possible conversion of the steep, rocky valley of Rock Creek into a great reservoir at some future time. The site is shown upon the accompanying drainage map. Within the limits of the District of Columbia the whole drainage area of the creek would be acquired by purchase to protect the reservoir from any deleterious inflow, giving a national park about three miles square. Outside the District the drainage area of Rock Creek is about forty square miles, which would either be acquired by purchase for the same purpose, or controlled by proper sanitary regulations under appropriate legislation. Such a project is beyond the necessities of the present, but not of the future, and there are many considerations which commend it to present attention.

Very respectfully,

R. L. HOXIE,
Lieutenant Engineers, U. S. A.

Maj. WILLIAM J. TWINING,
United States Engineers, Commissioner D. C.

B.—REPORT OF LIEUT. F. V. GREENE, CORPS OF ENGINEERS, U. S. A., ASSISTANT TO THE ENGINEER COMMISSIONER, D. C.

ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, October 20, 1880.

MAJOR: I have the honor to submit the following annual report concerning the streets and roads of the District of Columbia, for the fiscal year ending June 30, 1880.

The work conducted under my direction is shown in the following statement:

Summary statement of operations and estimates.

Number.	Description.	Expended, 1879–'80.	Appropriated, 1880–'81.	Estimated. 1881–'82.
1	Replacement of pavements	*$200, 315 44	$300, 000 00	$400, 000 00
2	Improvement of streets and avenues	56, 615 82		
3	Repairs to concrete pavements	†98, 643 04	75, 000 00	75, 000 00
4	Material for permit work	‡8, 709 81	20, 000 00	25, 000 00
5	Repair of bridges	58 38	6, 000 00	500 00
6	Repairs to macadam pavements			20, 000 00
7	Current repairs of streets and alleys	§73, 984 08	§70, 000 00	35, 000 00
8	Repairs of county roads			25, 000 00
9	Repair of Seventh street road		15, 000 00	
10	Cleaning streets	34, 825 10	35, 100 00	30, 000 00
11	Cleaning alleys	5, 259 20	8, 500 00	6, 000 00
12	Lighting streets	122, 024 69	123, 400 00	125, 000 00
13	Parking Commission	15, 299 67	15, 320 00	20, 000 00
14	Improving grounds south of the Capitol	19, 955 31		
15	Survey of the District with reference to future extension of streets and avenues		5, 000 00	5, 000 00
	Total	635, 690 54	673, 320 00	766, 500 00

*$7,948.32 of this reimbursed by railroad companies, under provisions of act of Congress of June 11, 1878.
†$2,235.21 of this reimbursed by railroad companies, under provisions of act of Congress of June 11, 1878.
‡Exclusive of material for sewer work.
§Includes repairing and cleaning sewers.

PAVEMENTS.

The condition of the streets on the 1st of July last was as follows:

	Square yards.	Miles.
Asphalt and concrete (coal tar)	981, 348	40.66
Stone block	411, 774	14.87
Rough stone	559, 051	18.04
Macadam	215, 330	7.45
Gravel	644, 993	31.31
Wood	509, 481	22.10
Unimproved	1, 799, 541	95.62
Total	5, 121, 518	230.05

The principal work executed on the streets during the past year (as during the year preceding), was the replacement of a portion of the rotten wood pavements. A careful examination of the records of the old corporation and board of public works, shows that there were laid, in all, 1,188,597.47 square yards of wooden pavements, aggregating a length of nearly 50 miles, and costing $4,003,744. When the present Commissioners came into office, in 1878, there were then on the streets, exclusive of paving between railway tracks, 34 miles (790,000 square

yards) of wooden pavements. On the 30th of June, 1880, these pavements had been partially replaced, to the following extent, viz:

Years.	With asphalt.		With granite.		With asphalt block.		Total.	
	Square yards.	Cost.	Square yards.	Cost.	Square yards.	Cost.	Square yards.	Cost.
1878 and 1879....	104, 022. 52	$200, 900 18	56, 993. 24	$129, 657 32	1, 093. 35	$2, 661 61	162, 109. 11	$333, 219 11
1879 and 1880....	67, 962. 91	104, 143 17	45, 084. 28	87, 390 42	3, 214. 08	6, 349 51	116, 261. 27	197, 883 10
Total	171, 985. 43	305, 043 35	102, 077. 52	217, 047 74	4, 307. 43	9, 011 12	278, 370. 38	531, 102 21

These 278,000 square yards reduced the total mileage of wood to 22 miles; since the 1st of July there has been executed, or placed under contract, 86,000 square yards of repaving. As a temporary expedient, during the last few months, on some streets, the wood has been taken up in the center, and replaced with gravel, well rolled, the amount of this being about 38,000 square yards. After all these deductions have been made there will remain, on the 1st of January next, 17 miles, containing 385,000 square yards of wood pavement. This pavement has been gradually becoming more and more intolerable with each month, until now, in the whole 17 miles, there is hardly a single square on which a carriage can be driven with safety at a speed greater than a slow walk. The wooden streets are far less passable than those marked as unimproved.

The appropriation for replacing pavements for the year 1879–'80, was $150,000, and for improvement of streets, $100,000. But the contracts made on the 30th of June, 1879, which it was expected to pay out of the funds of 1878–'79, were charged to the year 1879–'80. The amount of these contracts was $83,963.54, leaving but $66,036.46. The balance of the appropriation for improving new streets was, however, made available for pavements, and the total amount expended during the year was $200,315.44 (including inspection, advertising, &c.). For the current year the appropriation is $300,000 of which about $185,000 has been put under contract already, leaving the balance till next spring.

There can hardly be any duty more important, for a city government, than to keep its streets in a passable and healthy condition. The streets now covered with wood are not in such a condition; and they should be disposed of within another fiscal year (*i. e.*, by June, 1882), at the latest. Many of them are in outlying sections of the city, where there is but little travel. These could, with little expense, be replaced with gravel, which would answer their purpose perfectly well, until the streets are more built up; about 120,000 square yards could thus be disposed of. The remaining 265,000 square yards could be repaved with the balance of this year's appropriation and an appropriation of $400,000 for next year. If this amount is appropriated, the wood can all be removed in eighteen months from this date. If a less amount is appropriated, some of the wooden streets will have to remain in the same miserable condition that they are now, until funds are provided for repairing them.

In this connection I beg leave to invite your special attention to the condition of the space in front of and adjacent to the old city hall, now used for the courts of justice. The portions of Louisiana and Indiana avenues between First and Seventh streets have a width of 120 feet of carriage-way, with still wider spaces at the intersections of Third and Sixth streets. There is not and cannot be any necessity for carriage-ways of any such width, and no others exist in the city. The space

which they cover amounts to 41,000 square yards (between eight and nine acres), to repave which will cost about $80,000, besides the expense of repairs to the pavements in the future. If these carriage-ways were reduced to a width of 60 feet, which would be amply sufficient to accommodate all the travel, the amount of pavement would be reduced to 20,660 square yards, and a saving of $30,000 be effected, even after paying the cost of relaying curbs, sidewalks, &c. The appearance of the whole space would also be immensely improved, and would be in accordance with the rest of the city. Such a change, however, is not possible without special legislation by Congress, for the act of April 6, 1870, which is still in force, provides as follows (Rev. Stat. Dist. Col., sec. 225):

> The proper authorities of the District are authorized to set apart from time to time as parks, to be adorned with shade trees, walks, and inclosed with curbstones, not exceeding one-half the width of any and all avenues and streets of said city of Washington, *except Pennsylvania, Louisiana*, and *Indiana avenues, and Four-and-a-half street between the city hall* and *Pennsylvania avenue*, leaving a roadway of not less than thirty-five feet in width in the center of said avenues and streets, or two such roadways on each side of the park in the center of the same; but such inclosures shall not be used for private purposes.

To carry out this law in replacing the wooden pavements, now in an impassable condition, in front of the City Hall, will require an unnecessary expense, and will prevent the appearance of the street from being improved. I therefore recommend that Congress be asked to repeal so much of this act as excepts Louisiana and Indiana avenues and Four-and-a-half street from the benefits of its provisions.

In replacing the wood the two standard kinds of pavements, asphalt and granite block, have been strictly adhered to, except at the intersection of Seventh street and Louisiana avenue, where a second piece of compressed asphalt blocks was laid as an experiment. This class of pavement looks reasonably well after the traffic which it has had (one year and two years, respectively), but it is too soon yet to give any positive opinion as to its merits, and it would not be well to lay any large quantities until it has had a five years' test, and then only in case its cost can be brought down to compete with the standard pavements.

The *granite block pavement*, laid on a foundation of gravel and sand, and filled in the joints with a cement of coal tar, gives great satisfaction in business streets, where the travel is heavy. The experience in Paris and London puts the life of this character of pavement (when laid without cement in the joints) at about thirty years, with an annual expense of about 10 cents a yard for maintenance and repairs. There is every reason to believe that the stone pavement laid in this city will prove equally durable, and that the cement in the joints, by making the pavement water-tight, and giving the blocks mutual support, will reduce the annual cost of maintenance to 2 or 3 cents a yard.

The only objection which is ever made to this class of pavement arises from the noise made by heavy teams. In several cases it has been necessary to lay it on streets where there are no business houses or heavy travel, but where the grade is heavy (above $\frac{2}{100}$), or where the carriage-way is very narrow between the railroad track and the curb. In all such cases it has been laid against the vigorous protest of the residents, on account of the noise; but there is no question that it is much better suited to such streets than the smooth asphaltum.

The proportion of stone to asphalt pavement laid in the two years from July 1878 to July 1880, is as 10 to 17.

During the present fiscal year, owing to the difficulty formerly experienced in compelling contractors to furnish blocks of a suitable shape,

the District has bought its own blocks, subject to careful inspection, and then made contracts in the usual manner for laying the blocks furnished by the District. The blocks were bought by contract awarded to the lowest bidder. The result of this change has been a much better grade of blocks, and a reduction in the total cost of the pavement of from 10 to 15 cents a yard. It now averages about $1.79 a yard, as against $1.92 for last year. The contracts for asphalt pavements averaged $1.47 per square yard last year and $1.85 this year.

The *asphalt pavements* are laid substantially as they have been ever since 1878, *i. e.*, a foundation of 6 inches of hydraulic cement concrete, and a wearing surface of bituminous mastic laid in two coats, respectively ½ inch and 2 inches thick when compressed.

The mastic is composed of the following parts by weight:

Asphaltic cement (refined Trinidad asphalt 100 parts; petroleum oil, 20 parts)	15 to 18	
Limestone powder	15 to 17	
Sand	70 to 65	
	100	100

The specifications of last year called for 18 to 20 per cent. of asphaltic cement, but experience showed that this proportion made the pavement too soft in summer, and the proportion actually used was between 16 and 17 per cent. At present the proportion used is about 15 per cent. The theory of this pavement is a solid base of concrete masonry, practically imperishable, and a comparatively thin and smooth wearing surface which can be replaced when it is worn out—say every fifteen or twenty years. The concrete base is easily made and satisfies all the conditions; in making the wearing surface there are many practical difficulties which require constant attention and skilled, experienced labor. The pavement is subjected to a temperature of + 150° in summer and — 10° in winter, a range of 160° Fahr., at all of which temperatures it is required to present a uniform surface. The danger in practice is that in extreme cold the surface will crack and become friable, and in extreme heat it will become so soft that it will roll or creep under the traffic and present a wavy surface, very uncomfortable to travel over. Refined asphalt is very brittle at a temperature of 60° Fahr., or less; when tempered with the heavy oil resulting from petroleum distillation it becomes ductile and tough, but if the heavy oil is added in excess—say above 20 per cent—the mixture will fuse or run at a temperature of 150°, or even less. The problem is, therefore, to mix these two hydrocarbons in such proportions that the mixture shall neither be brittle nor liquid under the extremes of cold and heat actually experienced on the streets. Up to the present time the proportion of oil has been kept at about 20 to 100, or 16⅔ per cent. None of the pavements laid since 1878 have cracked under the cold (minimum, — 5° Fahr.) of the two winters since that date. A few of them have, in two or three small places, crept into waves under the heat of summer, as, in spite of all precautions, mistakes will sometimes occur in the preparation or handling of the material.

The mixture of asphalt (*i. e.*, mineral bitumen) and petroleum oil is the cement which binds together the particles of sand, which form two-thirds of the wearing surface and constitute its real resisting material. This cement must be less than enough to fill the voids in the sand, and only enough to bind them together when perfectly compressed. In order to reduce the voids as much as possible, ground limestone powder is added to the sand in the proportion of about 1 to 4. The powder is of such degree of fineness that it will all pass a 26 screen, and seventy-

five per cent. of it will pass a 40 screen. The cement, as previously stated, is added in the proportion of about 15, to 85 of sand and limestone powder combined. The oldest pavement of this class is the one laid by the paving commission of 1876 on Pennsylvania avenue between Sixth and Fifteenth streets. This has now been on the street between three and four years, and the repairs (made at the expense of the contractors) are understood to have cost $2,142.50, or at the rate of $714.16 per annum, the number of yards being 53,198.80. The annual expense for repairs has been less than 1½ cents per square yard. On the compressed asphalt pavement, laid by the Neuchatel Paving Company on Pennsylvania avenue, between First and Sixth streets, the repairs are reported to have cost about $1,867, or $622.33 per annum, the number of yards being 25,322.28. The annual expense for repairs has been about 2½ cents per square yard. This pavement of the Neuchatel Company is of the same character as those laid on the roadways in Paris. It is composed of *natural* bituminous limestone, which is broken and reduced to powder by heat, placed on the street in form of powder, and compressed by large iron rammers. The pavements which we are now laying in this city, under the name of asphalt, are *artificial* mixtures or mastics. Our investigations and practice are therefore on an entirely different line from those in Paris. The objections made to the Paris pavements are well known to be its slipperiness during a light rain or in damp weather, and the difficulty of cleaning. The contracts for maintenance provide for sanding the pavement when slippery, and for flushing it with a large amount of water and scrubbing with a rubber mop or "squeegee" in order to clean it. The same objections apply to the compressed asphalt pavement on Pennsylvania avenue, while the mastics as laid here are almost free from these objections, owing to the gritty nature of the sand, which forms a large portion of the ingredients. It is too soon as yet to affirm anything positive as to the wear of the mastics. Where cut by plumbers, for making connections with pipes and sewers, the surface coat does not show any appreciable wear. The pavements are all to be repaired at the contractor's expense during the period of five years from date of completion, but as yet no repairs have been necessary except for cuts made by plumbers.

The entire surface of asphalt pavements on a concrete base in this city on the 1st of January, 1881, will amount to 360,000 square yards; of the so-called concrete pavements, of which the cementing substance was a product of coal tar, the amount is 700,000 square yards, giving a total of 1,060,000 square yards of monolithic or smooth surface pavements, extending over a length of 44 miles. This is considerably more than exists on the roadways of all other cities in the world taken together; the amounts for other cities being as follows:

	Square yards.	Miles.
Paris	370,000	19¼
London	150,000	6¾
New York	20,000	1
Other cities (estimated)	60,000	2¾
	600,000	30

The so-called *concrete pavements* are, as a general rule, in a fair state of preservation; they were generally laid on a base of broken stone from 4 to 6 inches thick, covered with a layer of "binder," about 1 inch thick, composed of pebbles and a cement of coal tar. The wearing sur-

face was made in various ways according to the patent, but consisted essentially of small gravel, sand, or stone dust, cemented by a product of coal tar. In the later pavements of this variety a certain proportion of asphalt was mixed with the coal tar, and with beneficial results. Several of these pavements have stood the test of five years' wear, with little or no repairs, and are to-day in perfect condition; others were of inferior quality. When the top surface has worn off, these pavements begin to go to pieces very rapidly, and in order to save them from destruction they must be promptly covered with a new wearing surface. During the year 1879–'80 53,436 yards were thus resurfaced; and 17,863 yards were entirely condemned, taken up, and replaced with the standard asphalt pavement on a concrete base. During the current year about 15,000 yards have been resurfaced or are under contract.

Experience has, however, shown that by careful attention and constant repairs of small quantities in each, these pavements can be made to last much longer than was anticipated. Pavements, for example, which seemed on the point of destruction two years since have by constant patching been maintained up to the present time and still present good surfaces. These pavements, however, were all laid within a few years of each other, and there is a possibility that after a few years more of wear they might all break up at the same time, during a severe winter, for example. It is, therefore, economical to gradually resurface a certain portion every year, and an appropriation of about $100,000 should be made annually for this purpose. A summary of these pavements is shown in the following table:

	Square yards.	Cost.
Laid, 1871–'75	741, 415. 44	$2, 284, 004 91
Resurfaced, 1875–'78	218, 842. 69	329, 378 69
Resurfaced, 1878–'80	53, 436. 33	59, 187 40
Replaced, 1879	17, 863. 75	29, 691 90
Minor repairs, 1875–'78	.....	3, 099 62
Minor repairs, 1878–'79	.....	18, 618 22
Minor repairs, 1879–'80	.....	8, 206 26
Total for repairs	.....	448, 182 09

These repairs extend over a period of seven years, *i. e.*, from 1873, the average time of laying, to 1880, and the average annual expense of repairs is, therefore, $64,026, or at the rate of 8½ cents per yard. This is certainly not an expensive rate for the luxury of smooth pavements. The asphalt pavements being composed of less perishable materials and being laid in a more substantial manner, it may be confidently expected that the cost of maintenance will be still less.

The minor repairs of concrete and asphalt pavements are made by contract let to the lowest bidder, and running for one year. These repairs include the damage done to pavements by plumbers' cuts, the actual cost of which is paid by the plumbers. The work to be done is specified by this office, and the whole city is carefully examined and repaired about four times a year, or oftener, if necessary. The work is done under careful inspection of experienced inspectors employed by the District.

The *rough-stone pavements* (rubble and cobble) remain in the same condition as mentioned in the last annual report. They are uncomfortable for travel, but their replacement is of secondary importance, on sanitary grounds as well as others, to the replacement of the wooden pavements.

The *macadam pavements*, when laid in the center of a city and subject to heavy travel, have proved very unserviceable here as elsewhere. The pavement of this character on Four-and-a-half street is in very bad order, and to properly repair it would cost not less than 60 to 70 cents per square yard, or more than $20,000 for the whole street. It would be cheaper in the end and better to replace it with granite blocks and sell the macadam metal for use in making concrete. On streets of lighter travel, such as Boundary, T, and Eleventh streets, the macadam, when well laid and compressed, has lasted reasonably well; but it is an expensive pavement to keep up, and requires constant repairs. For five years these pavements have had little or no repairs, and the ruts and holes have become very numerous. They should receive attention next year without fail, and I have submitted an estimate of $20,000 for this purpose.

In regard to the general subject of pavements, I submit the following report, made at the request of the United States minister to France, by the chief engineer of the streets of Paris. It embodies the experience of what is usually considered the best paved city in the world. The report was accompanied by numerous specifications and other documents too long to be published here. The report is as follows:

[Translation.]

OFFICE OF THE PREFECT OF THE DEPARTMENT OF THE SEINE, PONTS ET CHAUSSÉES, SERVICE OF THE PUBLIC HIGHWAYS.

REPORT OF THE ENGINEER-IN-CHIEF.

PAVING IN THE CITY OF PARIS—INFORMATION ASKED FOR BY THE MINISTER OF THE UNITED STATES—ORGANIZATION OF THE SERVICE.

The care of the streets in Paris, an important branch of the direction of public works, is intrusted to engineers of the *ponts et chaussées*, who have under their orders a force of superintendents and overseers selected by competition. The duty of this force is to prepare and superintend the construction and maintenance of the highways, sewers, water-pipes, and tree-planting, and inspect the lighting.

New works are executed by contract, publicly awarded; works of maintenance are intrusted in part to road laborers (*cantonniers*) and auxiliary workmen paid directly by the city, and for the rest to contractors. Appended to this report are specimens of estimates and specifications of different contracts for maintenance and for materials now in operation, which will afford the means of studying in detail the working of the service.

LENGTH AND CHARACTER OF HIGHWAYS.

The total length of the streets in Paris is 557 miles (896.5 kilometers). This length is divided as follows, according to the nature of the road covering:

	Miles.
Stone pavement	392.54
Macadam	144.70
Asphalt	19.76
Total	557.0

MODE OF CONSTRUCTION—EXPENSE OF ESTABLISHMENT AND MAINTENANCE.

Stone pavement.—The streets are for the most part paved with blocks of sandstone grit (*grés*), which come either from the suburbs of Paris or from more distant quarries. These blocks, whose shape is that of cubes or of parallelopipedons, are furnished by special contractors. They are of different dimensions, according to the grade and the nature of the traffic, and are placed on a bed of sand 8 inches in thickness.

The square meter of new pavement of stone blocks costs between 16 and 20 francs ($2.58 to $3.23 per square yard). Its average durability is about thirty years, and the annual cost of maintenance is 0.65 franc (10½ cents per square yard).

There still exist in Paris certain streets paved with Belgian trap. This kind of road covering, which becomes extremely slippery by wear, is now abandoned. It is no

longer employed except in the gutters for an average width of 2 feet from the edge of the sidewalk.

The stone pavements in Paris represent 74 per cent. of the whole surface of the carriageways.

Macadam.—The macadamized streets are divided, according to the construction and the traffic which they must bear, into three categories, viz:

1st. Streets of *porphyry*, composed of a foundation of pebbles 8 inches thick and a bed of broken porphyry (*porphyre*) 6 inches thick. The use of these materials is limited to streets of great traffic.

2d. Streets of *millstone*, composed of a foundation as above and a bed of compact millstone (*meulière*) of 6 inches; limited to streets of average traffic.

3d. Streets of *pebbles*, composed of a single bed of pebbles (*caillou*) or flintstone (*silex pyromaque*) of 14 inches in thickness, employed on streets but little frequented or having a traffic of light carriages.

The first cost is as follows:

	Per square yard.
Streets of porphyry	$1 34
Streets of millstone	1 16
Streets of pebble	82

The macadam, which represents 22 per cent. of the whole surface of the carriageways, has been considerably diminished in the last ten years, in consequence of the difficulty of maintenance and of the expense resulting from it. Its use is now restricted to pleasure drives and to certain streets and boulevards of exceptional importance; but in all cases the macadam never occupies more than a central zone, bordered by gutters or facings paved in stone, whose width varies from $16\frac{4}{10}$ to 2 feet. The annual maintenance varies greatly, according to the locality, and exceeds $1.93 per square yard on certain streets which have an exceptionally heavy traffic and on which it is necessary to execute two general repairs each year, each one consisting in putting a new coat from 5 to 6 inches thick. The average annual cost of maintenance is 37 cents per square yard.

Asphalt.—The asphalted streets represent about 4 per cent. of the whole surface; they are made of a foundation of concrete of hydraulic lime, 4 inches thick, and a layer of compressed asphalt $1\frac{6}{10}$ inches; the price per square yard is $2.17.

In streets much frequented, the concrete of hydraulic lime is replaced to advantage by concrete of cement, increasing the foundation to 6 inches and the thickness of asphalt to $2\frac{4}{10}$ inches; which increases the price per square yard to $3.22. All asphalt work is given to a contractor, the lowest bidder, who is the proprietor of the mines of Lobsann (Alsace); he is required, besides, for the sum of 22 cents per square yard, to maintain the asphalted streets in good order and to replace each year one-fifteenth of the whole surface.

USE OF ASPHALT AND BITUMEN.

Asphalt powder, compressed while hot, is used for the covering of the carriageways, and melted bitumen (*bitume coulé*) for the flagging of sidewalks. These materials are prepared for use in works belonging to the contractors, under the supervision of the agents of the city.

The use in Paris of compressed asphalt dates from 1866; it gained in a few years a rapid development, but since 1871, for reasons of economy and also as the result of more exact understanding of the conditions of such work, its use has been sensibly diminished and appears destined to remain restricted. In fact, asphalt becomes excessively slippery in times of damp fogs and fine rain; it must be proscribed on streets having a grade greater than $\frac{1}{100}$, and on those which, although on easy grades, have heavy traffic, such as through streets, the approaches of railroad stations, canals, docks, warehouses, &c. Also on narrow and damp streets it cannot be maintained; and it is prudent to employ it only on those streets already provided with all the underground accessories, so that the profile of the street may not have to be modified for the construction of public or private sewers, drain-pipes, or gas-pipes, which it is well to put under the sidewalks. Finally, it is very difficult to make the necessary repairs to it during the winter in case of frosts or continuous rains.

In short, the rule which prevails in Paris is to employ asphalt only in those localities where the absence of noise is particularly desired, such as the national palaces, ministries, public offices, embassies, religious edifices, hospitals, theaters, colleges, lyceums, schools, &c. It makes a street almost noiseless, producing neither mud nor dust; its inconvenience is that it easily becomes slippery, requires minute care to keep it clean, frequent flushing with water, and a force always ready to sand the dangerous places; it is much dreaded by horsemen and pleasure carriages.

Melted bitumen prepared as stipulated in the specifications to the contracts is used only for sidewalks; it is laid on a foundation of concrete 4 inches thick, and it costs 93 cents per square yard.

In the same way as for the compressed asphalt, the contractors undertake, for the sum of 5 cents per square yard, the maintenance of the sidewalks, and must relay each year one-fifteenth of the whole surface.

This kind of covering, on which repairs can always be made very quickly, gives general satisfaction.

IMPROVEMENT OF STREETS.

During the past year the following streets were brought to grade, sidewalks, curb, and gutters laid, and the carriageways graveled, viz:

	Cost.
South Capitol, from B to M streets	$20,388 13
North Capitol, from K to Boundary streets	10,985 40
M street North, from New York avenue to First street east	5,243 05
Virginia avenue S. E., from Third to Fourth streets	1,040 50
C street S. W., from Ninth to Thirteenth-and-one-half streets	3,324 10
Tenth street S. W., from B street to Maryland avenue	1,667 74
New Hampshire avenue N. W., from Q street to T street	10,116 71
Dunbarton street, Georgetown, from Congress to Washington	2,399 28
Beall street, Georgetown, from Water to Monroe streets	418 20
	55,583 11

The total length of the above improvements was $2\frac{3}{4}$ miles.

In addition to the above, New Jersey avenue, between Canal and M streets southeast, a length of about one-fourth mile, was cut down to grade and macadamized during the work of filling the old canal last winter; and Second street, Georgetown, between Fayette and Warren, a length of one-sixth mile, was brought to grade with the earth excavated from Dunbarton street, and the gutters and sidewalks were relaid by the superintendent of repairs. The total length of streets opened and improved during the year was, therefore, $3\frac{1}{4}$ miles. All of this work has been done entirely at the cost of the District, there being no special assessments on property owners for improving the streets in front of their property.

The general funds being, however, quite insufficient to make all the improvements desired, a considerable amount of work has been done, partly at the expense of the persons benefited and partly at the expense of the District, under what is known as the "permit system." Under this system the District pays for all the materials used (curb, flagging, cobble, bricks, &c.), and the persons benefited pay for the labor. The District also lays out, free of cost, the line of the street, and furnishes the grade. A deposit is required when the material is issued, as a guarantee that it will be properly used; this deposit is returned after the work has been inspected and found satisfactory.

Under this system, during the past fiscal year, $2\frac{1}{10}$ miles of streets were improved, *i. e.*, the curbs, gutters, and sidewalks were laid, requiring 11,031 feet of curb, 11,031 feet of gutter flag, 3,677 square yards of cobble stones, and nearly 700,000 paving bricks. Nearly 60,000 bricks were also furnished for the repair of old sidewalks; and about 3,500 square yards of alleys were graded and paved.

During the current year, the demand for materials for improvements under the above conditions has been still more active, and fully as much work has been done in the four months of the present fiscal year as during the whole of last year. The advantages of this system are obvious, and an estimate of $25,000 is submitted for the purchase of materials during the next year.

Of the 95 miles of streets marked as unimproved on the acompanying table (Appendix D), about 18 miles were originally improved by the old corporation. By reason of the changes of grade made by the board

of public works, these streets are now not on the grade of the streets which intersect them; the carriageways are also of unnecessarily great width (50 feet and over), and are for the most part not covered with any proper road material. Much of the old cobble, curb, and gutter stone is suitable for use, but the average cost of improving them on new lines and grades would be not much less than $20,000 a mile, with a graveled roadway, and $40,000 additional for a standard pavement. The total cost would, therefore, be $360,000 for gravel, or $1,080,000 for pavements. Estimates for a portion of this work, amounting to about $600,000, are submitted in the accompanying table (Appendix C) for such action as may be thought proper. The greater part of this work is wholly secondary in importance to the necessity for replacing the wood pavements in the center of the city, whose existence is not only a nuisance to the people residing along them, but also a detriment to the city at large by impeding travel.

It should be remembered that Washington is one of the most thinly built up cities in existence, for the length of its streets and the area within its limits. It has 164 miles of streets, improved or partially improved, in an area of 9½ square miles, and for a population of 160,000, whose total revenues, including that contributed by the general government, amount only to $3,280,000 per annum. The relative area, population, and revenues of the three great cities of the world, as compared with Washington, are shown in the following table:

Cities.	Area in acres.	Paved streets.	Population.	Annual revenue.	Number of inhabitants per acre.	Number of inhabitants per mile of paved street.	Revenue per inhabitant.	Revenue per mile of paved street.
		Miles.						
London	32,000	1,184	3,700,000	(*)	115	3,125	.....	.....
Paris	19,279	557	1,988,806	$67,600,000	103	3,570	$34 00	$121,364 45
New York	14,000	330	1,150,000	30,000,000	82	3,485	26 09	90,909 09
Washington	6,111	102	160,000	†3,280,000	26	1,568	†20 50	32,156 86

*London being governed by 40 different vestries and local boards, it is impossible to give the total revenue.

†One-half of this is contributed by the general government.

From this it is evident that Washington has comparatively a very small population and small revenue to the amount of streets required to be kept up.

While this lack of density has great advantages for sanitary reasons, and in a measure adds to the beauty of the city, yet it renders the proper care of the streets extremely difficult under any reasonable rate of taxation. With the current revenues on the present basis and without special assessments for improvements it will, therefore, be many years before the outlying streets can be paved or even improved with graveled roadways.

STREET SWEEPING.

The streets are swept by contract, according to schedule prepared in the engineer's office. During the past year the contract was held by L. P. Wright, at the rate of $33,000 per annum, for an amount not less than 92,000,000 of yards. The work was satisfactorily performed with machines.

In May last proposals were invited for doing this work for the period

of three years, from July 1, 1880, subject to annual appropriations by Congress. The specifications required the work to be done according to schedule furnished by the Engineer Commissioner, and to be paid for at a fixed rate for each thousand yards actually swept, the total amount to be about 110,000,000 of yards per annum. The lowest bidder was H. L. Cranford, at $23\frac{3}{4}$ cents per thousand yards, and the contract was awarded to him at that rate.

For 110,000,000 of yards per annum the cost will be $26,075. The new contract, therefore, performs 20 per cent. more work and saves the District about $7,000 a year.

The new contractor was required to execute an indemnity bond holding the District harmless from any suits growing out of patent rights in street sweeping machines.

The work under the new contract is progressing favorably and satisfactorily. The frequency of sweeping depends on the amount of traffic on the street. Under the present schedule the two million and a half square yards of paved streets are swept as follows: Daily, about 4 per cent.; twice per week, 6 per cent.; once per week, 50 per cent.; and once in two weeks, 40 per cent. It is found by experience that bad weather prevents sweeping on about forty days in the year. As previously stated the contractor is paid only for the amount actually swept.

ALLEY CLEANING.

The alleys are cleaned also by contract. The number of paved alleys is 303, and of graded, but not paved, about 200. They are of very different sizes, but average about 1,200 square yards each. These alleys are all swept and cleaned once in every week during the eight months from April to November, and once in two weeks during the four months from December to March. Owing to the small width of the majority of them it is not practicable to use machines, and the sweeping is all done by hand. The alleys are thoroughly sprinkled, however, before sweeping in order to avoid creating a dust during the operation. The lowest bidder for the current year was R. Carns at $4,275 per annum, to whom the work was awarded.

During the past year the alleys were swept once in a week during six months, and once in two weeks during the remaining six months of the year. The cost of the work was $4,160.43 for the year.

STREET LIGHTING.

There are at present on the streets of Washington 3,681 street lamps, and in Georgetown 387 lamps, lighted at the expense of the District. The contract with the Washington Company is $28.70 per annum, and with the Georgetown Company $32 per annum for each lamp, to burn 2,200 hours per annum with a six-foot burner. The companies also light, extinguish, clean, and repair the lamps as part of their contract without extra expense.

During the past year 80 new lamps were erected. On Pennsylvania avenue the lamps are placed at intervals of every 100 feet of curb; on other streets the intervals vary up to 250 feet. About 5 miles of improved streets have no lamps at all.

During the past year the street signs of the new pattern were placed on the corner lamps throughout the city. These consist of a light iron frame, rectangular in shape, resting on the frame of the lamp, and inclosing on each side a piece of glass 16 inches long and $3\frac{1}{4}$ inches high.

On these glasses the names or numbers of the streets were cut by sand blast. The advantage of this arrangement lies in the fact that the signs are independent of the lamp proper, and are not liable to be broken in cleaning the panes. Twelve hundred and twenty-three signs were placed on the lamps, at a cost of $2,140.25.

CURRENT WORK OF REPAIRS OF STREETS AND ALLEYS.

In addition to the 102 miles of paved streets, there are 33 miles of graveled streets in the city, the cleaning and repair of which is conducted by days' labor, as well as the miscellaneous repairs on the streets, alleys, and sewers of every character not specifically provided for. All of this work is placed under the immediate charge of the very efficient superintendent of repairs, Dr. E. M. Chapin, who has under his direction a force of overseers and workmen which varies according to the amount of work to be done, but averages during the summer months 10 overseers, 50 laborers of various grades, and 40 carts. The amount and character of this work done during the past year is shown in detail in Appendix E. It includes 30,000 yards of cobble-stone pavement laid or relaid on roadways, gutters, and alleys; 14,000 feet of gutter-stone relaid, over 5,000 feet of curbing, 18 large sewer basins constructed and 125 repaired, 75 small drop basins constructed under hydrants, 3,000 feet of sewer laid, about 90,000 yards of roadways graveled, 1,000 yards of new brick pavement laid and 12,000 relaid, &c., besides cleaning sewers, traps, gutters, and unpaved streets.

In the estimates for next year, the repairs to streets and sewers are separately estimated, in order that the appropriations may provide more specifically for this class of work.

COUNTY ROADS.

The county roads within the District aggregate a length of about 104 miles, of which about 8 miles are of macadam, and nearly all the rest of gravel. About 8 or 10 miles of road which are but little frequented, and are remote from any proper road material, have no covering except the loamy earth through which they are built. The Tunlaw road, of which mention was made in the last annual report, was completed in February, at a total cost of $6,511.03. Its length is 6,675 feet, or $1\frac{26}{100}$ miles. No new roads were commenced during the last year. The Seventh street road, which forms the main inlet to the city from the north, is composed of a central strip of macadam, and two side strips of gravel, each strip being 16 feet wide. The crown of the road was rather too flat, and from lack of repairs for several years the surface had worn into holes and ruts of a very serious character. During the summer of 1879, the gutters were lowered in order to give the road a proper crown, and under the appropriation of $15,000, made for that purpose at the last session of Congress, thorough and systematic repairs were commenced at the beginning of the present fiscal year. This work is done by days' labor, and it has now progressed in a very satisfactory manner as far as the Rock Creek Church road, just beyond the entrance to the Soldiers' Home. With the present appropriation it is hoped to carry the work as far as Brightwood. From that point to the District line the road has not deteriorated so badly, and the necessary repairs can probably be made without a special appropriation.

As far as the work has gone it has required new metal, on an average thickness of 6 inches, in order to bring the road to its original surface.

The completed road is now in first-class condition in every respect, but the traffic is extremely heavy, and it will require constant attention and frequent repairs to keep it in good order.

The ordinary repairs to the roads are conducted by days' labor under the direction of a supervisor in each district, the county being divided into three districts for this purpose. The nature and extent of the repairs are determined in the engineer's office. During the past year $19,022.53 were expended for such repairs, or at the rate of $183.45 per mile. The amount asked for this purpose in the estimates for next year is $25,000.

Nearly all the roads are in very fair traveling condition, and those in the immediate vicinity, which are much used for pleasure driving, are kept in the best order that gravel will permit of.

There is but one road in the District, that from Georgetown to Tennallytown, which is a toll road owned by a private corporation. I renew the recommendation made last year that this be condemned as a free road and the charter right of the company be paid for. It is not kept in proper repair.

SURVEY OF THE DISTRICT.

The trigonometrical survey of the District, under the appropriation of $5,000 made for that purpose, is now progressing rapidly. The work is done by the officers of the Coast Survey, the District paying only the current expenses of the work, exclusive of salaries. The field work of the main triangulation is now complete, all of the stations having been observed; of the secondary triangulation 127 stations out of 150 have been observed.

The topographical parties will begin work as soon as the triangulation is complete, and carry it forward as rapidly as possible depending on the weather. The triangulation will be computed during the winter, and in the spring the triangulation points, which are about half a mile apart, should be permanently marked in stone for future reference.

By the end of the fiscal year it is expected that two or perhaps three sheets of the final map will be completed on a scale of 400 feet to the inch and showing the contour of the ground at vertical intervals of 5 feet. An estimate of $5,000 is submitted for continuing this work. When these maps are completed it will be possible to mark the lines of the public roads, as now required by law, and what is of more importance, it will afford the data for a proper study of the subject of extending the streets and avenues to the District line on one general plan, instead of allowing streets to be laid out in the disconnected manner now seen in the suburbs of the city. When this plan of suburban streets is matured, it should be submitted to Congress for approval, in order that it may have the force of law, and that all subsequent subdivisions of property into building lots and streets should be required to conform to it.

TELEGRAPH LINES.

There are now in this city 41 miles of telegraph lines, consisting of 1,266 poles, carrying about 336 miles of wire, in addition to telephone and fire-alarm wires carried over the tops of houses, and estimated to amount to 100 miles of wire. They belong to seven different companies, viz: The Western Union, Atlantic and Pacific, American Union, Rapid, Capital Telephone, American District Telegraph, and the Fire Alarm, besides a few miles of wire belonging to the general government and connecting its buildings with the Capitol and the Arsenal. The poles

are a source of constant and well-founded complaint, principally on account of their unsightly appearance. There has also been some trouble arising from the trees which interrupt the working of the wires when the latter come in contact with the wet leaves. As yet this has not been very great, but five years hence the majority of the vast numbers of young trees on our streets will have attained such a height that the wires cannot with safety be placed on poles above them. The difficulty will then become a very serious one, and the trees will have to suffer or else the wires take another route. So long as any poles are allowed to stand it is not possible to limit the number of them, for to do so would seriously cripple the business of the community, prevent the extension of telegraph facilities, and limit the reduction of prices brought about by the competition of rival companies. Nor is it possible to place the poles on unfrequented streets, for the main offices must of necessity be in the very center of the city; the branch lines connect the different parts of the business portion of the city, and the telephone lines are used by the residents of the handsomest streets.

Every evil resulting from the telegraph poles will increase very greatly in the next few years. There is but one remedy which will have any permanent value, and that is to compel the removal within a stated period of every pole, and to cause the wires to be laid under ground.

I, therefore, recommend that the matter be taken seriously in hand and Congress be urged to pass the following law, or one of a similar nature, at the coming session, viz:

Be it enacted, &c., That on and after the 1st day of January, 1882, it shall not be lawful for any corporation, company, or individual to erect, construct, or maintain telegraph poles within the limits of the city of Washington, except as hereinafter provided. And all telegraph poles now existing within said limits shall be removed on or before said date at the expense of the owners thereof, including the repairs of any damage caused to the street or pavement by their erection or removal.

SEC. 2. From and after the 1st day of January, 1882, the main lines of all telegraph companies shall be carried under ground, except that portion of them which lies along tracks of the Baltimore and Ohio and Baltimore and Potomac Railroad companies; and the Commissioners of the District of Columbia shall designate the route along which each line shall be carried, under the pavement of the carriage-ways or sidewalks of the public streets: *Provided*, That the companies, corporations, or individuals laying such underground wires shall reimburse the Commissioners of the District of Columbia for all expense incurred in repairing the pavements disturbed by the companies for this purpose: *And provided further*, That the wires shall be so laid with boxes at convenient intervals, or otherwise, that it shall not be necessary to remove the pavement thereafter for the purpose of repairing the wires.

SEC. 3. Where lines of wire belonging to different companies shall be laid along the same route, the pipes, trenches, boxes, or other appurtenances in which they shall be laid shall be used in common, and it shall not be lawful to lay or construct more than one set of pipes or other appurtenances for telegraph wires on the same street. The terms of such joint occupation and use shall be fixed by the companies themselves, or, in case of disagreement, by the supreme court of the District of Columbia.

SEC. 4. The wires connecting the branch offices with the main offices of the different companies and the wires of telephone companies may be carried over the tops of houses with the consent of the owners thereof; otherwise, they shall be laid under ground in the manner previously provided for.

The use of underground telegraph lines is no untried experiment. It was attended with certain defects and failures when first used in 1852 and 1853 on the long lines connecting London with Liverpool and Manchester, but these have since been overcome, and for the last fifteen years it has been in successful operation in all great cities in Europe, and also in many instances between distant cities.

The details of the methods of laying and operating such lines are fully described in Culley's and other standard works on practical telegraphy, in the Journal of the English Society of Telegraph Engineers, and in

other publications devoted to telegraph interests. No telegraph pole is to be seen in London, Paris, and other great cities, and there are to-day more than a thousand miles of underground lines in successful operation in Europe, as will appear from the following statement, compiled from authentic information, viz:

	Miles of line.
In London	110
In other cities in England	120
In Paris	119
In other cities in France	100
In Berlin	50
In 32 other cities in Germany	40
In the Hague	4
In 45 other cities in Holland	19½
In Brussels	3½
In Antwerp	2
In Amsterdam	7½
In various cities in Switzerland	4½
Between Berlin and Halle	400
Between Liverpool and Manchester	36
Total	1,016

These underground lines carry from 1 to 150 wires each, and average about 30 wires. There are therefore considerably over 30,000 miles of wire under ground in Europe, in operation at the present time. No doubt, therefore, exists as to the perfect feasibility of the system. It is true that the expense is greater than in the system of carrying the wires on poles, but it is a question whether the streets shall be any longer disfigured on account of this expense.

The system which has proved most successful in European cities consists in carrying a number of separate wires, insulated with gutta percha, in iron pipes, laid about two feet below the surface.

The Western Union Company is now laying an experimental line between New York and Newark, on what is known as the "Brooks patent." This consists of a cable, composed of a number of small cotton-covered wires (generally copper), led through an iron pipe filled with paraffine oil. Whether this method will prove more satisfactory than the method now so extensively used in Europe remains to be seen.

Since 1876 an underground line, carrying 125 wires, has been in operation in New York between the main office of the Western Union Telegraph Company and their branch offices in Pearl street and Hanover Square. A similar line has been in operation in the Capitol grounds in this city since 1867. There is nothing to prevent its extension to all the lines of the city, except the cost. This might equitably be reimbursed to the different companies by remitting the taxes on their stock for a certain number of years.

There would be no objection to allowing the poles to remain along the two lines of railroads entering the city, so long as these roads remain as at present. The main underground lines should connect the railroad depots with the main offices, the Signal Office, government buildings, and Georgetown, and two north and south lines along Sixth and Fourteenth streets from boundary to the river would also be needed. The total length of main underground lines would thus be about 10 miles, with 40 wires on each line. The branch lines, as well as telephone and fire-alarm wires, should leave the main lines at such points as may be necessary, and might be carried over the tops of houses if the owners will give their consent; otherwise, they should also be put under ground.

All lines should be laid under the sidewalk or in the parking of the

streets. The pavements would then have to be cut only at the crossings of streets.

The questions of insulation, of laying in boxes, pipes, tubes, or simply in the bottom of the trench, and all other purely technical questions should be left entirely to the companies, with the single proviso that the trenches should have covered boxes or manholes at intervals of about 300 feet, so arranged that defective wires could be drawn out and replaced without the necessity of tearing up the street for that purpose.

The cost of changing the existing wires from poles to underground pipes I estimate as follows per mile, viz:

Excavation (2 feet by 1 foot by 5,280 feet) 391 cubic yards, at 25 cents	$97 75
5,280 feet of 4-inch iron pipe, at 34 cents	1,795 20
Laying same, 5,280 feet, at 10 cents	528 00
Repairs of pavements, 83 square yards asphalt roadway, at $2	166 00
Repairs of pavements, 500 square yards of brick sidewalk, at 10 cents	50 00
Removing 30 poles, at $1	30 00
Total for pipes and labor	2,661 95
Forty triple insulated wires, 211,200 feet at 3½ cents	7,392 00
	10,053 95
Deduct 211,200 feet (12,920 pounds) galvanized-iron wire available for use elsewhere, at 8 cents per pound	1,033 60
Net cost per mile	9,020 35

The above estimate is very liberal, and for a large amount of work the price could probably be reduced so as to bring the total cost within $8,000 a mile, for a line of 40 conductors, and a reduction of $185 for each conductor less than forty.

In Paris the cost of pipes and labor has amounted to $2,350 per mile, and for wires (laid in cables of seven conductors each) $103 per mile for each conductor. When laid in the sewers, as 80 miles of underground line are laid in Paris, the wires are placed in 7 conductor cables and inclosed in lead tubes which are attached to the sewers by iron staples. The cost of the cables and lead sheathing is $130 per mile for each conductor, and of attachments $90 per mile for each cable. If the same prices prevailed here as in Paris, the cost of laying 40 wires would be as follows per mile, viz:

In pipes	$6,470
In the sewers	5,740

The sewers of Paris offer exceptional facilities for carrying wires, which do not exist in the sewers of Washington. But the cost of laying the wires in small iron pipes, which would be the most feasible system in this city, is seen by the above to be less than two-thirds of the detailed estimate previously given. There is therefore but little doubt, as I have previously said, that the cost of laying a line of 40 wires would not exceed $8,000 a mile. For the 10 miles of trunk necessary for the present telegraph business of this city, the total cost would therefore be $80,000. This expense is to be divided among several companies, and it might be partially reduced by remitting for a term of years the taxes due on the property of the companies. It is, however, a question whether the streets and trees shall be sacrificed to the telegraph lines, and no question of cost ought to allow that question to be decided against the streets.

By a reference to Statistical Map No. 4, accompanying this report, it will be seen that we have 120 miles of shade trees, containing over 50,000 trees of 22 different varieties. In fact all the streets except those devoted exclusively to business purposes, like Seventh street, are covered with

young trees, the successful growth of which, under the care of the present parking commission, has been truly remarkable. Ten, or even five years hence, the beauty of these long lines of trees will be world-famous, for no other city in the world has anything to compare with them on its streets. To allow the beauty of the streets to be destroyed by unsightly poles and wires, or to allow the trees to be injured for the benefit of the telegraph business ought certainly not to be permitted. The work of removing the poles should therefore be undertaken at once.

STATISTICAL MAPS.

I submit herewith the following maps, containing statistical information in a graphic form concerning this city:

1. Valuation of real property.
2. Established grades.
3. Pavements.
4. Trees.
5. Street lamps.
6. Water mains.
7. Sewers.
8. Schools.
9. Engine-houses, fire plugs, and fire-alarm boxes.
10. Street railways.
11. Telegraph lines.
12. Schedule of street sweeping.

I have compiled these maps with considerable care during several months past, and they may be relied upon as accurate for the date of November 1, 1880. They are on a uniform scale, and different colors are used on each map to show the varieties of the subject represented.

Map No. 1, showing the valuation of real property per square foot, was obtained from the books of the treasurer and assessor, which show the total value of property and improvements on each square of the city as determined by the assessment of 1878, and corrected to June 30, 1879. This includes taxable and non-taxable property, *i. e.*, the property of the United States, of the District of Columbia, and of religious organizations.

Map No. 2 shows the grades established by the board of public works, or by their successors, the Commissioners of the District of Columbia, so far as the streets have been improved. Where the street has not been improved on the new grade, the map is left blank.

Map No. 3 shows the different varieties of pavements actually laid or under contract to be finished before January 1, 1881.

Map No. 4 shows the varieties of trees planted by the parking commission since 1871. The old and irregular trees planted prior to that date are shown as miscellaneous.

Map No. 5 shows the street lamps now on the streets.

Map No. 6 shows the location of the water mains, as derived from the records of the water registrar's office.

Map No. 7 shows the sewers actually constructed or under contract, the different drainage areas being distinguished by different colors; the size of the brick sewers is marked in feet, and the pipe sewers are indicated in dotted lines.

Map No. 8 shows the location of the school-houses owned or rented by the District, as shown on the records of the inspector of buildings.

Map No. 9 shows the working of the police and fire department, the

CITY OF WASHINGTON

Statistical Map No. I.
showing the
VALUATION OF REAL PROPERTY
as determined by the assessment of 1878,
and corrected to July 1st 1879.

Less than 50 cents per square foot.	
From 50 cts. to $1.00	" " "
" $1.00 " $2.00	" " "
" $2.00 " $3.00	" " "
" $3.00 " $5.00	" " "
More than $5.00	" " "

Total Valuation of Property.	
Taxable	$87,645,289
District of Columbia	1,139,544
Exempt from taxation	5,175,487
United States	82,156,574
Total	$176,116,894

The Centre of Property is at the corner of 8th. and D. Streets N.W.

Compiled
-by-
Lieut. F.V. Greene, U.S. Engrs
Asst to Engr. Commr.
to accompany the annual report
-of the-
Commissioners
-of the-
District of Columbia,
for the year ending June 30th. 1880.

SCALE.

Wm. T. O. Bruff, Del.
Engr. Dept.
D.C.

CITY OF WASHINGTON

Statistical Map No. 2.

showing the

STREET GRADES.

Streets between 0 and 25 feet above mean high water, are represented thus

" " 25 " 50 " " " " " " " "

" " 50 " 75 " " " " " " " "

" " 75 " 100 " " " " " " " "

" over 100 " " " " " " " "

Contour lines at vertical intervals of 5 feet.

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SCALE.

Scale of Slopes.

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D.C.

CITY OF WASHINGTON

Statistical Map No. 3,
showing the different varieties of
STREET PAVEMENTS.
on January 1st. 1881.

	No. of Miles.
Asphalt and Concrete Pavements are represented thus	44
Granite and Trap block " " " "	16.1
Wood " " " "	16.6
Cobble and Blue rock " " " "	18.1
Macadamized streets " " "	7.4
Gravelled " " " "	32.9
Unimproved " " " "	94.9
Total	230.0

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SCALE.

Mr. T. O. BRUFF, DEL. ENGR. DEPT. D.C.

CITY OF WASHINGTON

Statistical Map No. 4,
showing the lines of
SHADE TREES.

				Miles of Shade.	No. of Trees.
Maples	(Acer in variety.)	are represented	thus.....	48.	21,150
Poplars	(Populus Quadrangulata.)	„	„ „	13.3	5,640
Box Elders	(Negunda Fraxinifolia.)	„	„ „	11.4	4,745
Elms	(Ulmus Americana.)	„	„ „	10.7	4,560
Lindens	(Tillea Americana.)	„	„ „	10.5	5,675
Buttonwoods	(Platanus Occidentalis)	„	„ „	8.2	3,465
Miscellaneous		„	„ „	18.3	7,795
			Total	120.4	53,050

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CITY OF WASHINGTON

Statistical Map No. 5.

showing the location of

GAS LAMPS.

maintained and lighted at the date of January 1st 1881.

Number of miles of lighted streets	*112.38*
" " lamps on streets and alleys	*4163*
" " " U.S. Reservations	*663*
Total number of lamps	*4826*

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CITY OF WASHINGTON

Statistical Map No. 6,

showing the lines of

WATER MAINS.

		Length in miles.
The 36 inch main is represented thus		3.12
" 30 " " " " "		3.80
" 20 " " " " "		1.98
" 12 " mains are " "		9.60
" 10 " main is " "		.25
" 8 " " " " "		1.12
Smaller — mains are " "		155.50
	Total	175.37
Fire plugs are " "	•	826
Stop boxes " " "	•	1234
Hydrants " " "	×	317

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CITY OF WASHINGTON

Statistical Map No. 7,
showing the location of the
SEWERS.

Brick sewers are represented by full lines.
Pipe " " " " dotted "
Sewers in the Boundary street area are represented by this color
" " " Tiber valley " " " " " "
" " " B street " " " " " "
" " " Rock Creek " " " " " "
Other sewers " " " " "


	Length in miles. Pipe.	Brick.
	14.61	6.00
	29.00	15.12
	17.18	13.35
	29.81	6.60
	18.46	4.00
Total	109.06	45.07

NOTE. *Area between Boundary, N and 14th. streets, now drained into Tiber, sewer intended to drain into Boundary.*
Sewer in 8th. St. S.W. proposed. Intended to relieve B St. sewer.
" " Water " " " " " divert house sewage from Washington channel.

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CITY OF WASHINGTON
Statistical Map No. 8,
showing the location of the
PUBLIC SCHOOLS.
School Houses owned by the District of Columbia are shown thus ■ Whole number 35.
" " rented " " " " " " " " ■ " " 40.
Whole number of school rooms 384. Total 75.
Accommodation for 25,000 pupils.
Number in attendance 1879-80, 21,580 pupils.
" of teachers " " 433.
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by
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for the year ending June 30th 1880.
SCALE.
WM. T. O. BRUFF, DEL.
ENG'R DEPT.
D.C.
1
2
3
4
5
LE DROIT PARK.
NAVY YARD.
ARSENAL.
Analostan Island
Observatory.
Lafayette Sq.
Treasury.
S. W. & N. Depts.
Franklin Sqr.
Pat. Office.
P.O.
Judiciary Sqr.
Market.
Bot. Garden.
Bureau E. & P.
Congressional Cemetery.
Jail.
Alms House
Bennings Road
No. 3.
No. 2.
No. 1 Curtis
No. 4.
No. 5.
No. 6. Dickson
No. 1. Col. Chamberlain.
No. 11
No. 3. Col. Miner
No. 4 Force.
No. 13.
No. 1. Col. Sumner.
No. 2 Col. Stevens.
No. 14.
No. 5.
No. 7.
No. 9.
No. 15.
No. 8.
Unfinished.
No. 10. Grace M.E. Ch.
No. 4. Col.
Berret. No. 2.
No. 7.
No. 6. Col.
Unfinished
J. F. Cook. No. 1. Col.
No. 9.
No. 12.
No. 16
No. 12.
No. 10.
No. 17. Riggs
Emanuel Ch. No. 8.
No. 2. Col.
No. 3 Col.
No. 2. Abbot.
No. 3. Thomson.
No. 1. Franklin.
No. 15.
No. 5. Col.
No. 1. Seaton.
No. 3.
No. 14.
Miller No. 5.
Congre'l Ch. No. 6.
No. 18
No. 4.
No. 11
No. 19.
No. 13.
No. 2. Col. Lovejoy.
No. 6.
New Jerusalem Ch. No. 11.
No. 6. Peabody.
No. 12.
No. 9.
No. 13.
No. 1. Col. Lincoln.
No. 10.
No. 3. Col.
No. 1. Wallach.
No. 14.
No. 8.
Odd-Fellow's Hall No. 3.
No. 5. Cranch.
Masonic Hall No. 7.
No. 4. Anacostia.
No. 1. Jefferson.
No. 3. Potomac.
No. 2. Col. Anthony Bowen.
No. 1. Col. Randall.
No. 2. Greenleaf
No. 2. McCormick.

CITY OF WASHINGTON

Statistical Map No. 9,

showing the location of the Stations of the

POLICE and FIRE DEPARTMENTS.

Police Stations	*are represented thus* ▣	*Total number 8*
Fire engine houses	*" " " ◉*	*" " 8*
" alarm boxes	*" " " ●*	*" " 90*
Water Plugs	*" " " ●*	*" " 826*
Limits of Fire alarm districts	*" " ——·—·—*	

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SCALE.

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D.C.

CITY OF WASHINGTON

Statistical Map No. 10,

showing the location of the

STREET RAILWAYS.

Railway of the Washington and Georgetown Company is represented thus:

	Miles of Track.
" " " Metropolitan " " "	9 7/10
" " " Capitol, north O street and south Washington " " "	10 3/10
" " " Columbia " " "	4 7/10
" " " Anacostia " " "	2 3/10
	2 3/10
Total	30 3/10

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CITY OF WASHINGTON

Statistical Map No II,

showing the location of

TELEGRAPH LINES.

Poles of the Western Union Company are represented thus.

	NO. OF POLES.	MILES OF LINE.	MILES OF WIRE.
Poles of the Western Union Company are represented thus.	439	141	230
" " " Atlantic & Pacific " " " "	198	73	44
" " " American Union " " " "	139	46	53
" " " Rapid " " " "	90	45	9
" " " Telephone " " " "	64	—	25
" " " Fire Alarm " " " "	286		25
Total	1266	30.5	436

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D.C.

CITY OF WASHINGTON

Statistical Map No. 12,
showing the
SCHEDULE of STREET SWEEPING.

	Total number of Square yards.
Streets swept daily are represented thus	111,355
" " trice per week " "	148,516
" " once " " " "	1,144,970
" " in two weeks " "	786,850
Wooden pavements cleaned once a month "	184,210
Total	2,375,921

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D.C.

station-houses, engine-houses, districts, alarm-boxes, and the plugs from which the engines can obtain water.

Map No. 10 shows the existing street railways, and Map No. 11 the telegraph lines, as derived from a careful examination of the streets, and the reports of the companies.

Map No. 12 shows the schedule for sweeping the streets under the present contract, different colors being used to indicate the frequency with which the different streets are swept.

I inclose herewith the annual reports of the surveyor, the parking commission, and the superintendent of lamps; also the following appendices:

Table of contracts for improvement and repairs of streets, 1879–'80.

List of streets covered with wood on July 1, 1880, and requiring repavement.

Schedule of proposed improvements, &c.

Character and extent of street pavements in Washington on July 1, 1880.

Table of expenditures for current repairs of streets, alleys, and sewers, 1879–'80.

Table of expenditures for current repairs of county roads.

Tabular statement of trees on the streets of Washington July 1, 1880.

Very respectfully, your obedient servant,

F. V. GREENE,
First Lieutenant Engineers.

Maj W. J. TWINING.,
Corps of Engineers, U. S. A.,
Engineer Commissioner, District of Columbia.

APPENDIX S 1.

REPORT OF THE CHIEF CLERK.

ENGINEER DEPARTMENT, DISTRICT OF COLUMBIA,
Washington, September 15, 1880.

SIR: I have the honor to submit the following report of work done by the clerical force of the department for the fiscal year ending June 30, 1880:

Number of communications received, briefed, and recorded in letters received.	4,233
Upon these 4,822 indorsements have been made and 1,507 reports submitted.	
Number of orders and letters written	2,840
Number of copies of contracts drawn and recorded	219
Number of permits (gas, sewer, water, and miscellaneous) issued	2,971
Number of sets of vouchers and bills prepared	557
Number of special assessments revised	177

I also submit a consolidated summary statement of operations of the department, showing the expenditures for the past fiscal year, and estimates for the ensuing year; also tables showing the condition of the public markets.

Very respectfully,

JOSEPH C. ROCK,
Chief Clerk Engineer Department.

Consolidated summary statement of operations and estimates.

No.	Description.	Expenditures up to June 30, 1880.	Estimated for 1881–'82.
1	Engineer department:		
	Salaries	$47,960 62	$29,350 00
	Contingent expenses	3,824 55	4,500 00
2	Water department, all expenses	*†166,338 18	†48,790 00
3	Cleaning and repairing lateral sewers and basins	14,585 74	30,000 00
4	Lateral sewers, construction of	‡15,524 05	20,000 00
5	Boundary Street sewer	§61,997 65	100,000 00
6	New York Avenue sewer and outlet	70,019 35	12,000 00
7	Dredging channel across the flats; completing canal outlet	4,442 31	.....
8	Public hay scales	111 00	500 00
9	Repairing Tiber sewer	3,304 34	.....
10	Dredging James Creek Canal	.....	10,000 00
11	Markets	6,874 68	7,400 00
12	Cleaning tidal sewers	.....	3,000 00
13	Pumps	2,494 44	3,000 00
14	Replacement of pavements	‖200,315 44	400,000 00
15	Improvements of streets and avenues	56,615 82	
16	Repairs to concrete pavements	¶98,643 04	75,000 00
17	Material for permit work	14,230 86	25,000 00
18	Repair of bridges	58 38	500 00
19	Repairs to macadam pavements	.....	20,000 00
20	Current repairs of streets and alleys	59,398 34	35,000 00
21	Repairs of county roads		25,000 00
22	Repair of Seventh Street road		.....
23	Cleaning streets	34,825 10	30,000 00
24	Cleaning alleys	5,259 20	6,000 00
25	Lighting streets	122,024 69	125,000 00
26	Parking commission	15,299 67	20,000 00
27	Improving grounds south of the Capitol	19,955 31	.....
28	Survey of the District with reference to future extension of streets and avenues.	5,000 00	5,000 00
	Total	862,764 58	986,250 00

* Includes $32,180.83 of excessive water tax refunded, and $74,025 interest paid to sinking fund.
† These expenditures and estimates not included in footings, being charged to special water fund.
‡ $750 charged to appropriation of 1878–'79.
§ $39,926.04 charged to appropriation of 1878–'79.
‖ $7,948.32 of this reimbursed by railroad companies under provisions of act of Congress of June 11, 1878.
¶ $2,235.21 of this reimbursed by railroad companies under provisions of act of Congress of June 11, 1878.

Summary statement of the various district markets, 1879–'80.

	Northern market.		Eastern market.		Western market.		Georgetown market.	
	No. of stalls in market.	Monthly rent.	No. of stalls in market.	Monthly rent.	No. of stalls in market.	Monthly rent.	No. of stalls in market.	Monthly rent.
Butcher	35	$4 67	18	$4 50	26	$4 50	36	$2 16
					12	9 00		
Bacon	30	4 67	6	4 00	2	3 75	.....	.....
					2	7 50	.....	.....
Huckster	13	2 00	39	3 00	12	3 00	22	2 16
	16	2 50			18	6 00		
	31	3 00						
	10	3 50						
Butter	3	2 50	8	4 00	7½	3 37	12	2 16
	7	3 00						
	2	3 50						
Fish	2	2 00	2	3 00	2	3 00	*4	105 00
	2	2 50			3	6 00		
	6	3 00						
	3	3 50						
Miscellaneous	24	3 00	7	4 00	8½	3 00	2	2 16
	4	3 50			12	6 00		
Baker	.....	.....	.....	.....	.....	.....	2	2 16
Receipts	.....	5,764 56	.....	3,280 30	.....	4,489 20	.....	1,208 96
Expenditures	.....	2,050 57	.....	2,127 57	.....	1,557 15	.....	1,137 87

* Sold annually at public auction.

APPENDIX S 2.

REPORT OF THE WATER REGISTRAR.

WATER REGISTRAR'S OFFICE, DISTRICT OF COLUMBIA,
Washington, September 20, 1880.

SIR: I have the honor to make the following report of the operations of this department from July 1, 1879, to June 30, 1880:

WATER-MAINS.

1st. The total length of water-mains laid in the District of Columbia is 924,068½ feet, or $175\frac{68\frac{1}{2}}{5280}$ miles.

2d. Laid by the United States Government: 30-inch, 12-inch, 6 and 4 inch mains, 93,750 feet, or $17\frac{3930}{5280}$ miles.

3d. Laid by the District of Columbia: 36, 30, and 20 inch mains, 31,639 feet, or $5\frac{5239}{5280}$ miles.

4th. Laid by the late corporation of Washington: 6 and 4 inch mains, 55,000 feet, or $10\frac{2200}{5280}$ miles.

5th. Laid by the water department since its organization to June 30, 1879: 12, 6, and 4 inch mains, 747,470½ feet, or $141\frac{2990\frac{1}{2}}{5280}$ miles.

Of the above there was laid since July 1, 1879, to June 30, 1880, 15,887 feet, or $3\frac{2990\frac{1}{2}}{5280}$ miles, of which the following is a correct list:

Streets.	Streets between.	Diameter.	Length.
		Inches.	
Vermont avenue	P and Q streets north, west side	4	120
In alley	South Capitol and A streets southeast	4	239
College Hill	Stockman and Chapmam streets	4	1,038
C south	Ninth and Tenth streets west, center	6	422
P north	Twentieth and Twenty-first streets west, north side	6	1,356
R north	Fifteenth and Sixteenth streets west, north side	6	396
T north	Fifteenth and Sixteenth streets west, north side	6	492
Fifth west	Q and R streets north, west side	6	468
Sixteenth west	T and U streets north, east side	6	948
Caroline	Fifteenth and Sixteenth streets west, center		
Seventeenth west	I and K streets north, east side	6	474
Seventeenth west	Center K street	6	125
Connecticut avenue	N and O streets north, west side	6	312
Massachusetts avenue	Seventeenth and Eighteenth streets west, north side	6	936
New Jersey avenue	R and S streets north, north side	6	426
Rhode Island avenue	Fifth and Sixth streets west, south side	6	270
Rhode Island avenue	Tenth and Columbia streets west, south side	6	276
Vermont avenue	P and Q streets north, west side	6	180
Fourteenth west	B north and B south, east side	12	1,837
	East side Fourth street to Indiana avenue, to Four-and-a-half and Indiana avenue, and from Pennsylvania avenue to Maine avenue.	12	5,572
Total			15,887

New pipe laid in place of old cement pipe on Road street, Georgetown, D. C., between High and Montgomery streets: diameter, 6 inches; length, 3,024 feet.

Water-mains lowered:	Diameter (inches).	Length.
Tenth street west, between B and C streets south	6	624
Dumbarton street, between Washington and Congress, Georgetown	6	600
Second and College streets, Georgetown	6	300
Total		1,524

FIRE-PLUGS.

There are in the District of Columbia 826 fire-plugs, nearly all of the McClelland patent. Fifteen have been erected since July 1, 1879, to June 30, 1880, of which the following is a correct list:

Northeast corner Twenty-second and P streets northwest.
Northwest corner Fifteenth and T streets northwest.
Southwest corner Fifteenth and U streets northwest.
Northwest corner Twenty-fourth and K streets northwest.
Southwest corner Ninth and C streets southwest.
Southwest corner Pennsylvania avenue and Twenty-fifth street northwest.
North side Massachusetts avenue, between Seventeenth and Eighteenth streets northwest.
East side New Jersey avenue, between D and E streets southeast.
North side Grace, near corner Potomac streets, Georgetown.
North side Bridge, between High and Potomac streets, Georgetown.
Corner Fourth and Markets streets, Georgetown.
Corner First and Lingan streets, Georgetown.
Corner High and Dumbarton streets, Georgetown.
North side Road, head of Congress street, Georgetown.
Stockton street, College Hill, County.

Two new fire-plugs have been erected in place of old ones, at the following localities:

Corner Seventh and H streets northwest.
Corner Eleventh and F streets northwest.

Seven fire-plugs have been moved to new curb-line, at the following places:

Third and Q streets northwest.
Fourth and Q streets northwest.
Fifth and M streets northwest.
Tenth and I streets northwest.
Thirteenth and V streets northwest.
Second and College streets, Georgetown.
Congress and Dumbarton streets, Georgetown.

One hundred and eight repairs have been made to fire-plugs in the District of Columbia. The plugs have been flushed about 7,000 times, and oiled about 21,000 times.

STOP-VALVES.

From July 1, 1879, to June 30, 1880, there have been inserted 14 stop-cocks and boxes, of which the following is a correct list:

Size.	Location.
One 2-way 6-inch	Corner N and Nineteenth streets, northwest.
Do	Corner P and Twentieth streets, northwest.
Do	Corner N street and Connecticut avenue, northwest.
Do	Massachusetts avenue and Eighteenth street, northwest.
Do	Massachusetts avenue and Seventeenth street, northwest.
Do	Massachusetts avenue and Sixteenth street, northwest.
Do	Corner K and Seventeenth streets, northwest.
Do	Southeast corner New Jersey and Rhode Island avenues, northwest.
One 12-inch	Corner Massachusetts avenue and Fourth street, northwest.
Do	Corner Indiana avenue and Four-and-a-half street, northwest.
Do	Corner Maine avenue and Four-and-a-half street, northwest.
Do	Corner V and Sixteenth streets, northwest.
Do	Corner B and Fourteenth streets, northwest.
Do	Corner B and Fourteenth streets, southwest.

Fourteen stop-cock boxes have been raised and lowered.
Twenty-seven repairs have been made to stop-cocks.
Stop-cocks have been oiled 3,600 times.

BRANCHES.

There have been inserted, since July 1, 1879, to June 30, 1880, thirteen 6-inch, one 12-inch, and one 12-by-30 inch "T" branches, of which the following is a correct list:

No.	Size.	Location.
	Inches.	
1	6	Connecticut avenue, between N and O streets, northwest.
1	6	Rhode Island avenue, between Tenth and Columbia streets, northwest.
1	6	Massachusetts avenue, between Sixteenth and Seventeenth streets, northwest.
1	6	Massachusetts avenue, between Seventeenth and Eighteenth streets, northwest.
2	6	P street, between Twentieth and Twenty-second streets, northwest.
2	6	Seventeenth street, between I and K streets, northwest.
2	6	Rhode Island avenue, between Fifth and Sixth streets, northwest.
3	6	T street, between Fifteenth and Sixteenth streets, northwest.
1	12	Four-and-a-half street and Indiana avenue, northwest.
1	12 x 30	Fourth street and Massachusetts avenue, northwest.

HYDRANTS.

There are in use in the District of Columbia 317 hydrants; 268 in Washington and 49 in Georgetown. Twelve new hydrants have been erected in place of old ones, and eighteen new ones erected since July 1, 1879, to June 30, 1880, of which the following is a correct list:

1, F street, between Second and Third streets, southwest.
1, B street, between Third and Fourth streets, northeast.
1, I street, between Sixth and Seventh streets, southwest.
1, Third street, corner Massachusetts avenue, northwest.
1, Third street, corner N street, southwest.
1, Third street, corner Maryland avenue, northeast.
1, Six-and-a-half street, corner E street, southwest.
1, Eighth street, corner C street, southwest.
1, Eighth street, corner Boundary street, northwest.
1, Eleventh street, corner Pennsylvania avenue, southeast.
1, Twelfth street, corner B street, northwest.
1, Thirteenth street, corner N street, northwest.
1, Thirteenth street, corner I street, northeast.
1, Eighteenth street, corner L street, northwest.
1, Twenty-fourth street, corner N street, northwest.
1, P street, between Fifteenth and Sixteenth streets, northwest.
1, P street, between Seventeenth and Eighteenth streets, northwest.
1, New Jersey avenue, corner E street, southeast.

NEW HYDRANTS ERECTED IN PLACE OF OLD ONES.

1, Eighth and F streets, southwest.
1, Four-and-a-half and Virginia avenue, southwest.
1, Tenth and N streets, northwest.
1, Twenty-fifth and I streets, northwest.
1, Sixth and O streets, northwest.
1, Thirteenth and E streets, northwest.
1, Sixteenth street, between K and L streets, northwest.
1, M street, between Twentieth and Twenty-first streets, northwest.
1, Bridge and Aqueduct streets, Georgetown.
1, West and Montgomery streets, Georgetown.

1, Fourth and Market streets, Georgetown.
1, Fourth and High streets, Georgetown.
Six hundred and thirty-seven repairs have been made to hydrants.
Three hydrants have been removed to new curb-line at the following places:
Corner Thirteenth and V streets, northwest.
Corner Twenty-fifth and I streets, northwest.
Corner First and M streets, northwest.

TAPS.

From July 1, 1879, to June 30, 1880, there have been made 660 taps, consisting of $\frac{5}{8}$, $\frac{3}{4}$, and 1 inch in diameter.

FOUNTAINS.

Twenty-five repairs have been made to public fountains.

SERVICES.

1,085 services measured and examined; 23 services repaired and lowered.
On Tenth street, between B and C streets, southwest, there were 410 feet of service pipe lowered.

LEAKS.

Twenty-five leaks in mains have been repaired during the year.

PUMPS.

There are 442 pumps in use in the District of Columbia, four of which have been erected since July 1, 1879, to June 30, 1880, of which the following is a correct list:
Seventh street road, above Scheutzen Park, county.
Mount Pleasant, county.
Cemetery road, opposite Half-way house, county.
North Capitol and Boundary streets.
Two pumps have been lowered to new grade at the following places:
Corner A and Fourteenth streets, southeast.
Corner First and South Carolina avenue, southeast.
Four pumps have been moved to new curb.
Six hundred and twenty-nine repairs have been made to pumps.
Ten wells have been cleaned out.

Statement showing the amount of money collected by the collector of taxes for the water department from July 1, 1879, to June 30, 1880.

Water tax	$26,958	42
Water rent	165,683	37
Water-taps	1,980	00
Water permits, &c	1,787	80
	196,409	59

Expenditures of the water department from July 1, 1879, to June 30, 1880.

Office rolls	$10,417	61
Contingent expenses of office, printing, &c	962	19
Laborers' rolls	22,126	06
Material, &c	26,626	49
Refunded	32,180	83
Interest paid to sinking fund	74,025	00
	166,338	18

WATER TAX.

The total assessment for water-mains laid between July 1, 1879, and June 30, 1880, amounts to $4,482.03.

Statement showing amount of outstanding water-main tax and interest on June 30, 1880.

Tax	$69,502 39
Interest	23,456 06
Total	92,958 45

Principal of water-main tax assessed to the District of Columbia and unpaid June 30, 1880, $2,272.12.

Principal of water-main tax assessed to the colored schools of the District of Columbia and unpaid June 30, 1880, $419.57.

Water has been introduced into 865 new places during the year.

The number of houses and miscellaneous places using Potomac water was as follows on June 30, 1880:

Domestic	16,037
Miscellaneous	2,293
Total	18,340

Basing the amount of rent on the above places at the new rates the aggregate amount will be $110,005.15.

Estimate for the expense of the water department for the fiscal year ending June 30, 1881.

For salaries of water registrar, five clerks, inspector, and messenger	$10,440 00
For contingent expenses, &c.	1,000 00
For carriage and driver	900 00
For labor, repairing and oiling fire-plugs, stop-cocks, &c	22,000 00
For material, fuel for pumps, oil, tools, &c.*	9,400 00
For erecting pumps, &c	3,250 00
For stop-cock for blow-off	1,800 00
	48,790 00

It affords me great pleasure to state that the affairs of the water department are in a better condition than they have heretofore ever been, and are improving every day. The department is gradually getting out of debt, and I think in two or three years will be entirely free. It is not incurring any new debts, and the delinquent water-main taxes are being paid up. When the delinquent water-main taxes are all paid, which is only a question of a short time, I feel confident that the department will then be in a condition to reduce the water rents.

The water takers generally seem satisfied with the present charges, and there have been much fewer complaints than formerly.

The plan adopted for sending out notices to delinquents through the post-office proves to be the best that has yet been tried. The post-office returns all communications when it cannot find the parties to whom they are addressed, consequently we know who receive notices and who do not, and there cannot be much complaint about not receiving notices.

When complaints are made they are by persons who allow their water to be cut off for non-payment, and when the department executes the laws by exacting the penalty of $2 before it will turn the water on again.

The most embarrassing thing the department has to contend with is the insufficient supply of water. I think if Congress can be persuaded to take prompt action the coming winter to remedy this trouble, that

*This does not include the cost for laying water-mains, as they are paid for by special assessment.

the citizens of Washington and Georgetown will have less grounds of complaint than any city in the Union. When it is understood that the two cities have the same supply which was at first introduced, when there were only about 3,500 water-takers, when at the present time there are over 18,000 water-takers, I think persons will be more considerate in their criticisms about the administration of the affairs of the water department upon the subject of the scarcity of water.

There have been added to the number of water-takers for the year ending June 30, 1880, 865, and the number added for year ending June 30, 1881, will be far greater, and every addition takes away more or less from the water pressure, and if something is not done soon to give the cities an increased supply we will have a water famine like many of the other cities of the United States, as noted in the newspapers of the present year. It is all-important that the dam at the Great Falls, on the Potomac River, should be extended and an additional large pipe, 4 feet in diameter, be brought from the reservoirs at "Drovers' Rest," above Georgetown, across Rock Creek into Washington.

One of the troubles the department had to contend with during the past summer was the low condition of the Potomac River and the distributing reservoirs above Georgetown, owing to the continuous dry spell, which of course had the effect of lessening the supply of water coming into the two cities.

We have sent out over 18,000 circulars to water-takers calling attention to the waste of water and the importance of keeping the traps in water-closets closed down to prevent the foul gases from the sewers from escaping into houses, which it is hoped and believed will have due effect.

Mr. Henry Larman, the efficient inspector and tapper of water mains, has called my attention to the necessity of inserting a 30-inch stop-cock for a blow-off near the intersection of New Jersey avenue and D street, northwest, for the purpose of flushing the large mains to clean out the mud which accumulates—sometimes to the depth of six inches—and I recommend that this stop-cock be put in, which can be done at an estimated cost of $1,800. If this is done the large mains can be kept free from mud, which will have the effect of improving the water supply.

In conclusion I take pleasure in saying that the employés of the department are efficient and industrious gentlemen, and a great deal of whatever success the department may have attained is due to them.

I am, sir, your obedient servant,

THOS. C. COX,
Water Registrar.

Maj. WM. J. TWINING,
Engineer Corps, U. S. A., Engineer Commissioner, D. C.

APPENDIX S 3.

REPORT OF THE SURVEYOR.

SURVEYOR'S OFFICE, DISTRICT OF COLUMBIA,
Washington, D. C., October 1, 1880.

SIR: I have the honor to submit report of the operations of this office from June 30, 1879, to this date, as follows:

Surveys made for property holders	467
Subdivisions recorded and certified plats issued	87
Miscellaneous plats	26

Surveys made by order of Commissioners District of Columbia.

Streets and roads in Washington, Georgetown, and county	7
Lots in Washington, Georgetown, and county	21
Alleys in Washington	3
Squares in Washington and Georgetown	6
Wharves in Washington and Georgetown	2
Squares for numbering houses	14

In addition to the above the record books of subdivisions, for Washington, Georgetown, and the county, respectively, with accurate plats, areas, and descriptions, have been regularly duplicated for the office of assessments and taxes, and all questions touching errors of areas and distances in the early records have been promptly attended to and errors rectified.

I respectfully ask your favorable consideration of the following extract from my report of 1877:

* * * * * * *

In closing this report I cannot but call your attention to the inadequacy of the compensation of the surveyor as compared with the arduous duties and heavy responsibilities attaching to his office.

The municipal authorities of the city, early recognizing the high importance of these duties, exacted a heavy bond for their accurate and skilled performance, and while the duties were comparatively light and easily performed paid a salary to him and an assistant in addition to the fees of the office. Now, when more valuable interests are involved, his field of duties enlarged, and, for reasons before mentioned, become yearly more arduous, the surveyor is, by act of Congress, deprived of salary and assistance, while his bond remains the same as under the municipality.

That the act of Congress approved June 20, 1874, was intended to work an injustice to this officer cannot for a moment be believed; that it actually does so remains a fact; and in order that the status of the office may be re-established upon a more reasonable and equitable basis I most respectfully urge that the repeal of so much of the act as relates to the salary of the surveyor and an assistant be asked of Congress by the Commissioners of the District of Columbia.

I have the honor to be, sir, very respectfully, your obedient servant,

JNO. A. PARTRIDGE,
Surveyor of the District of Columbia.

Maj. W. J. TWINING, U. S. A.,
Engineer Commissioner of the District of Columbia.

Estimate of expenses for conducting the office of the surveyor of the District of Columbia for the year ending June 30, 1882.

Salary of surveyor	$2,400
Salary of clerk	1,200
Salary of janitor	400
Books, stationery, fuel, and other contingencies	600
Total	4,600

Respectfully submitted.

JNO. A. PARTRIDGE,
Surveyor District of Columbia.

APPENDIX S 4.

REPORT OF THE PARKING COMMISSION.

SIR: The parking commission has the honor to present the following report:

During the year ending June 30, 1880, 3,000 trees have been planted, and 248 old and decaying trees have been removed.

The planting of trees has now become to be a small item in the expenditures of the commission. So much is required for the ordinary

care and keep of those already planted, that comparatively few can be added to the number with present appropriations. The materials for repairing and reconstructing old tree boxes, and the purchase of 3,500 new ones, cost $4,298.82, while the cost of labor for setting and repairing boxes amounts to the sum of $3,079.07. Other items of expenditure may be noted, such as, for pruning, $418.23; watering, $540.75; mowing and cleaning reservations and parks, $169.87; taking out old trees, $78.75; whitewashing boxes and trees, $144.37; paving around trees, $583.11; weeding and cultivating around trees, $326.14.

The expenses incurred in the purchase and repairs of boxes could now be largely reduced if it were practicable to discontinue their use. Perhaps two-thirds of all the trees in the city would be improved by removal of the boxes, but where this has been attempted the trees have suffered from horses being allowed to gnaw the bark, and also from the malicious use of knives and hatchets in the hands of evil-disposed persons, by which the bark is cut and torn away in strips; so that it has been found necessary to replace the boxes in order to save the trees from total destruction. This vandalism is much to be regretted, as it would improve the appearance of the city far beyond ordinary expectation if the tree boxes could be dispensed with.

With regard to horses we would renew our suggestion of inserting rings in the curbstones for securing horses in the absence of drivers. It would be an economical measure to do so, as the cost of repairing broken boxes, and replacing broken trees, caused by runaway and stray horses for one year, would go far towards supplying these rings.

In some seasons the trees are much disfigured, and to some extent injured by caterpillars. To keep the trees entirely clear of these pests would require all the labor at the command of the parking commission during the summer months; but there are numerous other matters, of even greater importance than the removal of caterpillars, which demand attention, consequently the unsightly webs of the insects increase beyond what is desirable. It is very evident that it is only a question of expense to free the trees of caterpillars, and if the means are not available their complete eradication is impracticable.

It may be remarked that, after midsummer, the insects are more unsightly than injurious to the trees; the young growths have then acquired a considerable degree of maturity and solidity, and they are not materially injured by the destruction of the leaves; in fact the tree is much more permanently injured from the removal of infested branches by the pruning shears.

It is very desirable that the work of tree planting should keep pace with the improvement of the streets. There are yet many miles of streets and avenues ready for trees. There are also many thousands of trees ready for the streets; many of the trees will soon overgrow their availability for the purpose for which they are intended, and it would therefore be in the line of the strictest economy to provide means for extended planting at once; certainly there cannot be anything more praiseworthy than that of prosecuting this work with all possible expedition.

Respectfully submitted.

WM. R. SMITH,
Chairman.
JOHN SAUL,
WILLIAM SAUNDERS,
Secretary.

Maj. W. J. TWINING,
Engineer Commissioner District of Columbia.

APPENDIX S 5.

REPORT OF THE SUPERINTENDENT OF GAS AND LAMPS.

ENGINEER'S OFFICE,
Washington, D. C., September 15, 1880.

SIR: I have the honor to submit my report of the operations of this office, and expenditures incurred, from June 30, 1879, to June 30, 1880, showing a total expenditure of $126,032.78.

The street lamps of this city have been lighted during the past year 2,220 hours; the extra hours were rendered necessary for the protection of the city, owing to the large influx of strangers which crowded the city during the month of May to witness the exhibition of the National Fair and boat-race. The increase of hours beyond the usual number lighted, viz, 2,200, were by order of the Commissioners on a request of chief of police as an aid to the police department, and which proved a valuable auxiliary. Owing to the limited appropriation for the erection of lamps, a small number were erected during the past year, and they mostly in the northeastern and northwestern sections of the city. The northeastern is still without proper light, which can be remedied as fast as the gas company lay their mains. Many depredations have been committed in this portion of the city during the past year. Thirty-two lamps have been erected in alleys during the past year, which have had marked effect in the suppression of crime, as in nearly every case of robbery reported the premises have been entered from the rear through those alleys. There still remain some fifty of those alleys in the worst portions of the city which require lighting, as it is almost impossible to make an arrest, and where an officer's life is not safe after dark. Every facility has been given the city by the gas company in lighting those alleys, as the company has run the service-pipes free of expense, with the exception of 40 feet per lamp, which was the number of feet agreed upon between the company and this office, as it required six or seven hundred feet in some localities to erect one lamp. A verbal agreement has been entered into with the gas company to extend their mains wherever the city desires to erect lamps.

By the aid of the police department the great destruction of glass and lamps heretofore reported has been suppressed, except in some portions of the government parks, and in the city of Georgetown.

I would again recommend that the gas company be held responsible for the breakage of street lamp-signs, as the signs which were placed over the entire city are fast disappearing, and will require to be renewed within the next two years unless some check is placed on the lamp-lighters.

I would again respectfully call your attention to the manner in which the law is violated in the building of vaults. They invariably go to the curb line, which requires the lamps to be removed or broken, and, when again placed in position, adds additional expense to the city by running new service pipe, as well as increasing the distance between lamps and destroying their uniformity.

On an order from the Commissioners' office the control of the gas in the various departments of the city government, with the exception of the district offices and market houses, has been turned over to the heads of those departments, so that they could have a personal supervision over the consumption of gas, as it was impossible for this department to do, owing to the fact that the janitors of the various buildings recognized no authority from this office in economizing consumption of gas.

January 1, 1880, a contract was entered into with the Washington Gas Company which reduced the price of gas to $1.75 per thousand feet for street lamps, which will be a large saving to the city.

In Georgetown a large number of lamps have been removed on streets under improvement, and private services renewed. New lamps have been erected wherever petitioned for. Five lamps have been erected in the worst alleys of this city, and street signs have also been placed over this entire city, which will be a great convenience to the citizens as well as strangers. A contract was entered into with this company on January 1, 1880, which reduces the price of gas 25 cents per thousand feet, which will be quite a reduction on the former price. The burners in this entire city were changed; one-half the expense was paid by the gas company.

Very respectfully,

W. H. BAILEY,
Superintendent Lamps.

W. J. TWINING, *U. S. A.*,
Engineer Commissioner, District Columbia.

TABULAR STATEMENT OF EXPENDITURES FOR LAMPS AND GAS FROM JUNE 30, 1879, TO JUNE 30, 1880.

Washington, D. C.

Gas for street lamps	$109,881	23
Gas for District offices	574	03
Gas for market-houses	1,009	66
78 lamp-posts purchased	456	30
193 lanterns	501	80
Service pipe and fittings	687	85
Repairs incidental to improvements	93	85
Painting 2,026 lamp-posts	250	00
24 flanges for lamp-posts	36	00
30 extra arms for lamp-posts	30	00
	113,520	72

Georgetown.

Gas for street lamps	9,744	08
Gas for market-house	141	38
2 lamp-posts purchased	11	70
52 lanterns purchased	135	20
Service pipe and fittings	13	18
Repairs of tin work	126	80
Glass and globes	101	36
Repairs incidental to improvements	22	61
One and one half gross burners	16	00
Matches	19	75
Salaries of lamplighters	1,380	00
Salary of superintendent	800	00
	126,032	78

Number of lamps in Washington	3,661
Number of lamps in Georgetown	387

APPENDIX S 6.

TABLE A.—*Sewer and miscellaneous contracts for* 1879–'80.

No. of contract.	Date of contract.	Name of contractor.	Locality.			Description of work.	Cost.	Remarks.
			Street.	From—	To—			
	1877.							
52 and ex.	May 10 1879.	Wright, L. P.				Sweeping and cleaning streets in Washington and Georgetown, D. C.	$34,400 00	Complete.
176	Apr. 8	Smith, E. D., and Cranford, H. L.	Tiber sewer			Repairing Tiber sewer and construct overflow in the Botanical Garden, District of Columbia.	12,933 64	Do.
177	Apr. 7	Coyle, B. J., Whitthorne, W. J., and Cooper, D. B.				Construct an outlet at or near Seventeenth and B streets northwest, consisting of an arch of 24 feet span, supported by side walls upon pile foundations. Construct through the White Lot, from B street to Fifteenth and E streets northwest, a 3-ring brick sewer, 8 feet internal diameter, upon a hydraulic cement concrete foundation, with 5 manholes complete. Construct on Fifteenth street, from E street to New York avenue, and on New York avenue from Fifteenth to Thirteenth street, a 2-ring brick sewer, 6¼ feet internal diameter, upon a hydraulic cement concrete foundation, with 11 manholes complete. Construct on New York avenue, from Thirteenth to Eleventh sts., northwest, a 2-ring brick sewer, 5 feet internal diameter, with 4 manholes complete. Construct on New York avenue, from Eleventh to Ninth sts. northwest, a 2-ring brick sewer, 4½ feet internal diameter, with 5 manholes complete. Construct on the south side of Mount Vernon Place, from Ninth to Seventh streets northwest, a 2-ring brick sewer, 3¼ feet internal diameter, with 3 manholes complete.	70,019 35	Incomplete.

TABLE A.—*Sewer and miscellaneous contracts for* 1879–'80.—Continued.

No. of contract.	Date of contract.	Name of contractor.	Locality.			Description of work.	Cost.	Remarks.
			Street.	From—	To—			
	1879.							
180	Apr. 22	Draney, F. M	Alleys			Sweeping and cleaning from April 15, 1879, to June 30, 1880.	$4,228 78	Complete.
184	May 19	Gregory, H. I	Street designations			Furnish street designations with cast-iron frames, for four glass sand blast signs to be securely attached to the outside of street lamps in the cities of Washington and Gergetown, D. C., wherever directed by the engineer commissioner of the District of Columbia.	2,140 25	Do
188	June 10	Loane, J. G	Boundary	Fourteenth street east.	Eastern branch	Construct the outlet section of Boundary street (intercepting) auxiliary sewer, and so much of the 20-foot sewer as may be required.	39,926 04	Incomplete.
Ex. of 188.	Nov. 8	Cooper, D. B						
190	June 30	Keizer, L. R				Construct a steam pump for emptying sewers.	750 00	Complete.
192	July 1	Gregory, H. I	Stoves, &c			Furnish and deliver for year ending June 30, 1880.		Do.
194	July 7	Dempsey, W. H	Stationery			do		Do.
195	July 8	Blunt, H. W	Hydraulic cement			do		Do.
197	July 10	Wyvill, W. D	Stoves			do		Do.
198	July 11	Rives, Franklin	Blank forms and printing			do		Do.
199	July 14	Acker, W. J. & F. J	Stone			do		Do.
200	July 14	Hall, H. W	Groceries			do		Do.
201	July 14	Gilman, Emma H	Drugs, &c			do		Do.
202	July 15	Cohen, Robert	Boots and shoes			do		Do.
203	July 15	Sheehan, George	Lumber			do		Do.
204	July 15	Hewitt, R. C	Forage			do		Do.
205	July 15	Johnson, E. K. & A. L	Fuel			do		Do.
206	July 15	Savage, J. L	Hardware			do		Do.
207	July 15	Great Falls Ice Company	Ice			do		Do.
208	July 16	Becker, Conrad	Saddlery			do		Do.
210	July 16	Lansburg, Gustav & James.	Dry goods			do		Do.
211	July 10	Ballantyne, Wm. & R. C	School books			do		Do.
212	July 14	Eureka Fire Hose Company.	Fire Department fabric hose.			do		Do.
213	July 14	Somerville, Thomas	Plumbers' supplies			do		Do.
215	July 21	Homiller, M. H	Meats			do		Do

216	July 21	Norfleet, Thomas, and Mantz, Cyrus.	Tree straps			do		Do.
217	July 25	Childs, Isaac P., and Childs, Jacob.	Brick			do		Do.
218	July 25	McClelland, John	Iron pipe and castings			do		Do.
219	July 26	Schneider, Charles A., Schneider, John A., and Schneider, Charles F.	Lamp-posts and miscellaneous castings.			do		Do.
220	July 18	Varnell, J. T	Meats			do		Do.
224	Aug. 5	Somerville, Thomas	Sewer pipe and fittings.			do		Do.
225	Aug. 8	Colton, Franklin B	Tiber sewer			Dredge outlets of Tiber sewer, or so much thereof as may be deemed advantageous to the District.	4,442 31	Do.
226	Aug. 11	Moses, W. B	Furniture			Furnish and deliver for year ending June 30, 1880.		Do.
227	Aug. 21	Morris, Lewis	Corner Fourth and L streets northwest.			Repair and alter the school-house located corner of Fourth and L streets northwest.		Do.
230	Aug. 29	Howlett, J. H	Industrial Home School.			Construct a workshop and laundry and repair the Industrial Home School building in Georgetown, D. C.		Do.
234	Sept. 27	Callahan, John C., and Levy, Isaac.	Painting lamps			Paint the public lamps and lamp-posts with one coat of imperial green paint, mixed with boiled oil, for the period of time from this date to June 30, 1880.	202 60	Do.
236	Oct. 14	Naylor, J. G				Construct school-house on lots 18, 19, part 20, square 158, Massachusetts avenue, n. w.		Canceled.*
237	Oct. 14	do				Construct school-house on lots 10, 11, 12, and part lot D, square 814, fronting on Stanton square.		
239	Oct. 31	Draney, F. M				Removing and transporting night-soil for the period of five years from November 3, 1879.		Incomplete.
240	Nov. 18	Mohler, W. H., and Reynolds, James.	H street, n. w	Fourth street	Fifth street	Breaking down old arch sewer across H street, between 4th and 5th streets, n. w.; cleaning out filth of old sewer; laying an 18-inch pipe sewer from south side of H street, northwardly, across H street and through lot No. 12, square 517, to a 20-foot alley, including the construction of three manholes; connecting two sewer-traps with 12-inch sewer-pipe, filling over said pipe sewer with fresh earth, and repairing pavements and curbs.	488 19	Complete.

* See contract No. 246, new series.

TABLE A.—*Sewer and miscellaneous contracts for* 1879–'80—Continued.

No. of contract.	Date of contract.	Name of contractor.	Locality.			Description of work.	Cost.	Remarks.
			Street.	From—	To—			
	1879.							
242	Dec. 4	Maloney, P.	West Georgetown Washington, Georget'wn	Washington West	Greene street Grace street	Lay 12-inch pipe sewer	$385 35	Complete.
244	Nov. 21	....do	Alley in square 275			Lay 12-inch pipe sewer on Twelfth street, from S street to 15-foot alley, thence up said alley to intersection of 30-foot alley in said square, with three manholes and one alley-drop, complete, and grade and pave with cobblestone said 15-foot alley from Twelfth to Thirteenth streets, n. w.	480 65	Do.
245	Oct. 30	Cooper, D. B	Boundary street, n. e.	Fourteenth east	Eighth street	Construct the 2d section of Boundary street (intercepting) auxiliary sewer, 20 feet interior diameter, between Fourteenth and Eighth streets.	22, 071 65	Incomplete.
	1880.							
246	Feb. 7	Howlett, J. H				Construct school-house on lots 18, 19, and part 20, square 158, on Massachusetts avenue, northwest.		
247	Feb. 27	Washington Gas Light Company.				Light, extinguish, keep clean, and repair the Washington City street-lamps for the period of one year from January 1, 1880.	52, 868 23	Do.
248	Feb. 29	Georgetown Gas Light Company.				Light, extinguish, keep clean, and repair the Georgetown City gas-lamps for the period of one year from January 1, 1880.	5, 672 26	Do.
251	Apr. 8	Joyce, Thomas	Seventeenth street, n. w.	B street	G street	Construct 870 linear feet, more or less, of egg-shaped sewer, 3.25 by 4.875 feet inside measurement, upon hydraulic-cement concrete foundation, with five manholes, complete; 150 linear feet, more or less, of egg-shaped sewer, 2.50 by 3.75 feet inside measurement, upon a hydraulic-cement concrete foundation, with one manhole, complete; 240 linear feet, more or less, of egg-shaped sewer, 2.25 by 3.375 feet inside measurement, upon a hydraulic-cement concrete foundation,	7, 870 30	Complete.

						with two manholes, complete; 304 linear feet, more or less, of egg-shaped sewer, 2 by 3 feet inside measurement, upon a hydraulic cement concrete foundation, with three manholes, complete; construct two overflows; 645 linear feet, more or less, of 12-inch pipe sewer to be taken up and moved to property-yard; 45 linear feet, more or less, of old sewer, 3 by 3½ feet, at Pennsylvania avenue and Seventeenth street, northwest, to be taken up and rebuilt.		
253	May 17	Stafford, J. G	Virginia avenue, s. w....	Eleventh street....	Twelfth street.....	Construct an 18-inch pipe sewer upon a hydraulic-cement concrete foundation, with one manhole, complete.	364 79	Do.
254	May 8	Mohler, W. H., and Reynolds, James.	Fourth street, n. e..... C street, n. e	C street ..... Fourth street.....	G street..... Fifth street.....	Construct a circular pipe sewer, 24 inches interior diameter, upon a hydraulic-cement concrete foundation, on Fourth street, northeast, between C and G streets; also a circular pipe sewer, 15 inches interior diameter, upon a hydraulic-cement concrete foundation, on C street, northeast, between Fourth and Fifth streets; also a circular pipe sewer, 12 inches interior diameter, upon a hydraulic-cement concrete foundation; taking up and rebuilding connection of 18-inch pipe sewer, with 6 feet brick sewer; taking up and hauling to Sixth street property-yard 12-inch pipe on Fourth street, from C to G sts., northeast, and on C street, between Fourth and Fifth streets, northeast, in city of Washington, D. C.	5,149 22	Do.
Order	June 10	O'Hare, Edward.....	Massachusetts avenue, n. w.	Seventeenth street.	Eighteenth street..	Lay 12-inch pipe sewer, with one manhole, complete.	35 55	Complete.*

* Authorized by Commissioners of the District of Columbia March 23, 1880.

APPENDIX S 7.

TABLE B.—*Contracts for improvement*

A.—ASPHALT

No. of contract.	Date.	Name of contractor.	Locality.		
			Street.	From—	To—
189	June 30, 1879	John S. Baldwin.....	M street north	New Hampshire av	18th street west.
			New Hampshire av	M street north	Pennsylvania av
			N street north	9th street west	14th street west.
			Mass. ave	....do	13th street west.
			10th street west...	K street north	M street north ..
			E street north.....	New Jersey avenue	4th street west ..
			F street north.....	....do	....do .....
			Pa. av. (east side) ..	4th street east	7th street east ..
			I street north	9th street west	10th street west.
			....do	5th street west	8th street west ..
191*	July 1, 1879	....do	9th street west	P street north	U street north ....
231	Sept. 18, 1879	W. C. Murdock.....	5th street west	L street north.....	P street north.....
			20th street west...	Pennsylvania ave	I street north .....
241	Nov. 4, 1879	John S. Baldwin.....	G street north.....	Intersection of 18th street west.	.....
		Total	.....	.....	.....

B.—GRANITE

191	July 1, 1879	McKnight & Burns ..	C street north.....	7th street west....	8th street west..
			Intersection of 7th street west.	.....	Louisiana ave...
			1st street west	Pennsylvania ave .	F street north...
			9th street west....	P street north.....	U street north ..
			H street north	North Capital st ..	4th street west..
214	July 23, 1879	....do	New Jersey avenue	B street south.....	E street sonth.....
232	Sept. 16, 1879	William Buckley.....	2d street, George'n	Fayette street	High street .....
			F street north.....	7th street west....	9th street west....
235	Sept. 27, 1879	Thomas Joyce	Delaware ave. east	B street north.....	C street north.....
			C street north.....	Delaware avenue..	1st street east ....
			Market Space	8th street west	9th street west....
			20th street west...	I street north	K street north ....
			21st street west ...	Pennsylvania ave .	....do .....
			9th street west....	....do	B street north.....
243	Dec. 10, 1879	William Buckley.....	Potomac st., G't'n .	Bridge street.....	Prospect street....
		Total	.....	.....	.....

C.—REPAIRS TO

182	May 16, 1879	John S. Baldwin.....	Pennsylvania av ..	15½ street west....	18th street west.
			17th street west...	F street north.....	Pennsylvania av
193	July 3, 1879	Jonathan Taylor	F street south.....	4½ street west	7th street west ..
			1st street east	A street north	B street north...
196	July 10, 1879	Cranford, Hoffman & Filbert.	16½ street west....	H street north	Pennsylvania ave .
			15½ street west....	....do	....do .....
			15th street west...	K street north	New York avenue.
			Vermont avenue ..	H street north	I street north .....

*Extension.

APPENDIX S 7.

and repairs of streets, 1879 *and* 1880.

PAVEMENTS.

Description and character of work.	Number of square yards.	Price square yard.	Extra work.	Cost of material.	Total cost.	Remarks.
Lay asphaltum pavement 2½ inches thick when compressed, with hydraulic-cement concrete base 6 inches deep.	6,083.55	$1 47	$151 70	$48 75	$9,143 27	
	6,991.90	1 47	196 14	50 56	10,524 79	
	6,801.69	1 47	214 32	2 78	10,215 58	
	9,919.95	1 47	158 88	7 64	14,748 85	
	3,368.20	1 47	122 38	.....	5,073 63	
	4,932.02	1 47	116 76	.....	7,366 83	
	4,382.10	1 47	11 94	.....	6,453 63	
	6,126.40	1 47	105 88	4 75	9,115 43	
	2,090.15	1 47	316 02	1,104 51	4,969 69	Including extra grading, footwalks, &c.
	4,210.08	1 47	7 80	16 50	6,351 84	Do.
.....do	6,147.14	1 46	413 62	125 00	9,513 44	West side of street.
.....do	5,665.92	1 46	314 39	205 94	8,792 57	
.....do	981.21	1 46	41 51	11 63	1,485 70	
.....do	262.60	1 47	1 90	.....	387 92	
.....	67,962.91	.....	2,173 24	1,578 06	104,143 17	

BLOCK PAVEMENTS.

Lay granite block pavement with gravel and sand foundation and filling of heated gravel and asphaltic paving cement in the joints.	1,182.73	1 87	10 46	.....	2,139 51	
	3,214.08	1 87	180 85	158 33	6,349 51	Compressed asphalt block substituted.
	8,331.62	1 87	128 24	15 00	15,690 17	
	.....	.....	.....	.....	.....	Asphalt pavement substituted. (See cont. 191 ex.)
	8,336.90	1 87	492 55	.....	16,082 55	
.....do	8,775.80	1 87	462 82	7 80	16,881 37	
.....do	4,435.26	1 93	184 08	.....	8,744 13	
.....do	527.08	1 93	.....	.....	1,017 26	
.....do	2,055.72	1 92	3 80	.....	3,950 78	
.....do	4,909.21	1 92	499 00	58 45	9,983 14	
.....do	1,137.41	1 91	102 00	.....	2,274 45	
.....do	1,349.38	1 92	116 00	.....	2,706 81	
.....do	1,394.81	1 92	138 03	.....	2,816 06	
.....do	2,259.57	1 91	.....	.....	4,315 78	
.....do	388.79	1 93	38 05	.....	788 41	
.....	48,298.36	.....	2,355 88	239 58	93,739 93	

BITUMINOUS PAVEMENTS.

Lay asphaltum pavement 2½ inches in thickness when compressed, with a base of hydraulic-cement concrete 6 inches deep.	15,958.36	1 47	3,132 88	225 65	26,817 32	
	1,905.39	1 47	73 66	.....	2,874 58	
Resurface the concrete pavement with asphaltum, wearing surface 2½ inches in thickness when compressed.	4,206.15	98½	612 08	.....	4,804 31	
	2,342.65	93½	177 21	.....	2,368 08	
.....do	2,196.34	92½	144 90	.....	2,176 51	
.....do	1,996.74	92½	122 80	.....	1,969 78	
.....do	6,563.07	92½	654 60	31 50	6,756 94	
.....do	4,156.34	93½	528 62	509 61	4,882 84	

TABLE B.—*Contracts for improvement and*

C.—REPAIRS TO

No. of contract.	Date.	Name of contractor.	Locality.		
			Street.	From—	To—
222	July 30, 1879	Bailey-French Paving Company (D. W. Bailey, agent).	G street north	5th street west	7th street west ....
			13th street west...	F street north.....	N street north ....
			18th street west...	K street north	Pennsylvania ave .
			H street north	18th street west...	22d street west....
			....do	7th street west....	10th street west...
			20th street west...	New Hampshire av	M street north ....
			Mt. Vernon square	7th street west....	9th street west....
			Pennsylvania ave .	6th street east	8th street east....
			B street north.....	Delaware avenue..	1st street east.....
221	July 28, 1879	H. L. Cranford	Various streets....	.....	.....
		Total	.....	.....	.....

D.—OPENING AND

209	July 16, 1879	B. Reardon	Virginia avenue...	3d street east	4th street east.....
223	Aug. 4, 1879	Thomas Joyce	South Capitol st ..	B street south.....	N street south ....
228	Aug. 25, 1879	F. M. Draney.....	M street north	New York avenue	1st street east.....
			New Hampshire av	Q street north.....	T street north.....
			Dunbarton st., G'n	Congress street ...	Washington street
229	Aug. 29, 1879	Thomas Kirby	North Capitol st ..	K street north	Boundary street...
233	Sept. 25, 1879	Carmody & Hines	C street south.....	9th street west....	13½ street west ....
238	Sept. 25, 1879	William Buckley.....	10th street west ..	B street south.....	Maryland avenue .
		Total	.....	.....	.....

E.—

185	May 31, 1879	John G. Stafford	Back street, G'n...	Hamilton lane.....	Boundary line...
			Tunlaw road	Boundary line.....	Loughboro lane
186*	June 9, 1879	W. E. Vermillion and John Cudmore.	7th street road	Boundary street...	Dist. Columbia line
253	Apr. 31, 1880	Mohler & Reynolds ..	Canal road at College pond.	.....	.....
		Total	.....	.....	.....

* And extension.

repairs of streets, 1879 *and* 1880—Continued.

BITUMINOUS PAVEMENTS.

Description and character of work.	Number of square yards.	Price square yard.	Extra work.	Cost of material.	Total cost.	Remarks.
Resurface the concrete pavement with asphaltum, wearing surface 2½ inches in thickness when compressed.	3,068.97	$0 85	$1,237 72	$91 77	$3,938 11	
.....do	5,942.24	87	536 42	21 94	5,728 11	
.....do	4,741.40	1 00	443 94	21 93	5,207 07	
.....do	6,524.78	1 05	1,302 78	35 34	8,189 14	
.....do	4,189.46	85	607 42	30 00	4,198 46	
.....do	5,258.50	1 00	1,006 48	154 98	6,419 46	
.....do	.....	.....	.....	.....	.....	Revoked for lack of funds.
.....do	.....	.....	.....	.....	.....	Do.
.....do	2,249.68	90	613 38	7 50	2,648 59	
Minor repairs	.....	.....	.....	.....	8,206 26	
.....	71,300.07	.....	11,194 89	1,140 22	97,185 56	

GRADING STREETS.

Furnish all necessary material (except curb, gutter-flag, cross-flag, and brick), set curb, lay gutter-flag, lay and relay brick sidewalk, cobblestone gutters, grade and gravel roadway.	.....	.....	6 50	420 48	1,040 50	
Furnish all necessary material (except curb, gutter-flag, cross-flag, and brick), set curb, lay gutter-flag, lay and relay brick sidewalk, cobblestone gutters, grade and gravel roadway, build sewer-traps, and lay 12-inch sewer-pipe connections.	.....	.....	2,732 63	10,187 39	20,388 13	
.....do	.....	.....	216 35	2,947 64	5,243 05	
.....do	.....	.....	314 83	3,966 95	10,116 71	
.....do	.....	.....	380 27	935 01	2,399 28	
.....do	.....	.....	1,618 36	5,259 79	10,985 40	
.....do	.....	.....	320 77	1,452 68	3,324 10	
.....do	.....	.....	114 25	818 64	1,667 74	
.....	.....	.....	5,703 96	25,988 58	55,164 91	

ROADS.

Excavate earth and rock embankment, construct culverts, and gravel roadway.	.....	.....	675 71	127 42	6,638 47	
Grading and repairing the gravel portion of the road, taking up and relaying the gutters.	.....	.....	.....	116 41	3,265 92	
Construct a stone and brick culvert.	.....	.....	592 22	.....	1,540 10	Of this amount $1,114.85 was expended from the appropriation of 1881.
.....	.....	.....	1,267 93	243 83	11,444 49	

APPENDIX S 8.

TABLE C.—*Schedule of streets paved with wood and requiring new pavements.*

Street.	From—	To—	Carriage-way.	
			Width.	Square yards.
			Feet.	
First street west	G street north	H street north	32	1,493
Do	Defrees street north	I street north	32	487
Do	Pennsylvania avenue	Maryland avenue	53	2,500
Second street west	do	New Jersey avenue	40	14,966
Do	B street south	Maryland avenue	32	1,100
Third street west	Pennsylvania avenue	B street south	40	5,667
Eighth street west	C street north	E street north	51	3,624
Do	G street north	Mount Vernon Place	30	3,910
Do	L street north	do	30	1,193
Do	N street north	R street north	30	5,670
Ninth street west (east side).	P street north	Boundary	50	4,800
Tenth street west	O street north	R street north	32	4,880
Twelfth street west	do	Rhode Island avenue	32	1,970
Fourteenth street west (west side).	Circle	Boundary	.....	17,120
Fifteenth street west	Pennsylvania avenue	B street north	43	6,800
Do	S street north	Boundary north	32	4,445
Sixteenth street west	H street north	do	50	37,534
Eighteenth street west	New York avenue	Pennsylvania avenue north	32	4,355
Do	L street north	K street north	32	1,408
Nineteenth street west	K street north	Circle north	32	7,500
Twenty-second street west.	do	M street north	32	2,977
Twenty-third street west.	Pennsylvania avenue	do	32	2,662
Twenty-sixth street west.	K street north	Pennsylvania avenue	32	1,508
Second street east	East Capitol street	Maryland avenue	32	2,308
Do	do	D street south	35	7,025
Third street east	do	Pennsylvania avenue	32	2,187
Do	C street south	D street south	32	2,774
Fourth street east	East Capitol street	C street south	35	4,882
Fifth street east	do	do	40	5,284
Sixth street east	North Carolina avenue	Pennsylvania avenue	35	1,147
Eighth street east	D street south	do	40	1,690
Do	K street south	M street south	55	3,178
East Capitol street	Fourth street east	Eleventh street east	50	6,017
A street south	Second street east	Third street east	35	1,240
B street south	Pennsylvania avenue	Fifth street east	35	3,491
Do	First street west	Maryland avenue	35	4,900
C street south	Fourth street east	Sixth street east	30	3,786
D street south	Second street east	Third street east	35	1,742
C street north	First street east	do	38	2,700
Do	Four-and-a-half street west	Second street west	30	3,420
H street north	North Capitol street	First street west	56	4,200
L street north	Sixth street west	Eighth street west	32	2,538
Do	Twentieth street west	Pennsylvania avenue	32	6,997
M street north	New Jersey avenue	Sixth street west	32	4,600
Do	Fourteenth Street Circle	Sixteenth street west	32	4,570
Do	New Hampshire avenue	Twenty-sixth street west	40	8,711
N street north	Fifth street west	Ninth street west	40	4,622
Do	Fourteenth street west	Rhode Island avenue	32	3,800
O street north	Sixteenth street west	Seventeenth street west	32	1,710
P street north	New Jersey avenue	Nineteenth street west	32	24,743
R street north	Ninth street west	Fourteenth street west	32	7,555
Pennsylvania avenue (south side).	Twenty-sixth street west	Washington Circle	33	4,800
Indiana avenue	Third street west	Sixth street west	.....	13,521
Maryland avenue	First street west	Third street west	60	4,344
Louisiana avenue	Sixth street west	Seventh street west	.....	5,532
Missouri avenue	Third street west	Four-and-a-half street west	35	2,543
North Carolina avenue	Fourth street east	Sixth street east	40	1,655
New Hampshire avenue	M street north	Q street north	50	10,283
Massachusetts avenue	Third street west	New Jersey avenue	.....	7,400
Massachusetts avenue (north side).	Seventh street west	Fourth street west	.....	2,800
Rhode Island avenue	Fifth street west	Sixteenth street west	50	25,775
New Jersey avenue	D street north	H street north	60	13,900
Do	H street north	O street north	50	20,500
			.....	383,439

TABLE C.—*Schedule of streets paved with wood, &c.*—Continued.

Street.	From—	To—	Carriage-way.	
			Width.	Square yards.
			Feet.	
GEORGETOWN.				
Gay street	Montgomery street	Washington street	30	2,000
Greene street	Bridge street	West street	30	4,950
Congress street	Gay street	do	30	3,060
Market street	First street	Third street	30	2,177
			.....	12,187
Total			.....	395,626

APPENDIX S 9.

TABLE D.—*Schedule of proposed improvements for the completion of sundry streets and avenues in the cities of Washington and Georgetown, D. C.*

Street.	Limits.	Proposed improvement.	Estimated cost.
Delaware avenue northeast.	H to M street	Grade, set curbs, sidewalks, and gravel carriageway.	$5,000
North Capitol street	E to K street	do	10,880
First street northeast	K to New York avenue	do	7,000
Fifth street northeast	K to Maryland avenue	do	2,780
A street northeast	Third to Ninth street	do	5,900
D street northeast	Second to Delaware avenue	do	2,870
G street northeast	Fifth to North Capitol street	do	3,500
Chicago street northeast	First to Second street	do	2,750
California street northeast	do	do	2,560
Reservation northeast	G, H, and First streets	do	1,680
Virginia avenue southeast	Eleventh to South Capitol street.	do	22,110
North Carolina avenue southeast.	Sixth to Seventh street	do	3,150
One-half street southeast	H to M street	Grade	1,325
First street southeast	I to M street	do	2,990
Second street southeast	E to F street	do	2,290
Third street southeast	Virginia avenue to L street.	Grade, set curb, sidewalks, and gravel carriageway.	3,860
Fifth street southeast	C to M street	Grade	2,080
Sixth street southeast	K to M street	do	2,530
Do	South Carolina avenue	Complete macadam	6,000
Do	Pennsylvania avenue to South Carolina avenue.	Lay asphalt pavement	7,000
Seventh street southeast	D to M street	Grade, set curb, sidewalks, and gravel carriageway.	11,000
Eighth street southeast	East Capitol to D street	do	9,450
B street southeast	Sixth to Eighth street	do	4,100
C street southeast	First to Second street	do	2,420
Do	Sixth to Eighth street	Grade	650
E street southeast	do	Grade, set curb, sidewalks, and gravel carriageway.	3,770
G street southeast	Third to Eighth street	do	9,210
I street southeast	Second to Eighth street	do	12,120
K street southeast	Sixth to Seventh street	do	1,790
Do	South Capitol to Canal street	Grade	4,250
L street southeast	South Capitol to Eighth st	do	4,180
M street southeast	Fourth to Eleventh street	Grade, set curb, sidewalks, and gravel carriageway.	13,180
South Capitol street southeast.	N to S street	Grade	6,000
Canal street southeast	I to M street	do	50,000
Canal street southwest	B to South Capitol street	Grade, set curb, sidewalks, and gravel carriageway.	22,080
Four-and-a-half street, southwest.	Pennsylvania avenue to K street.	Lay stone pavement	47,910
Eighth street southwest	B to C street	Grade, set curb, sidewalks, and gravel carriageway.	1,370
C street southwest	Four-and-a-half to Sixth st	do	2,530
Do	South Capitol to First street	Grade	12,000
E street southwest	Seventh to Tenth street	Narrow carriageway and lay asphalt pavement.	18,200
H street southwest	do	do	5,000
Virginia avenue southwest.	Ninth to Twelfth street	Grade and lay stone block pavement.	14,070
Delaware avenue southwest.	B to Virginia avenue	Grade	9,000
Boundary street northwest.	Sixth to Delaware avenue	Grade, set curb, sidewalks, and gravel carriageway.	8,000
New Hampshire avenue northwest.	T to Boundary street	do	7,620
New Jersey avenue northwest.	O to Boundary street	do	12,000
New York avenue northeast.	North Capitol to Boundary street.	do	3,300
Vermont avenue northwest.	P to Boundary street	Narrow carriageway and lay asphalt pavement.	41,394
Monroe street northwest	Sixteenth to Seventeenth street.	Grade, set curb, sidewalks, and gravel roadway.	2,000
First street northwest	K to New York avenue	do	4,700
Seventh street northwest.	Q to Boundary street	Set curbs, sidewalks, and stone pavement.	16,000
Tenth street northwest	D to E street	Narrow carriageway and lay asphalt pavement.	3,890
Eleventh street northwest.	Ohio avenue to B street	Set curb, gutters, sidewalks, and lay stone pavement.	3,030

APPENDIX S 9.

TABLE D.—*Schedule of proposed improvements, &c.*—Continued.

Street.	Limits.	Proposed improvement.	Estimated cost.
Twelfth street northwest.	R to T street	Grade, set curb, sidewalks, and gravel roadway.	$3,700
Intersection of	Twelfth and G streets	Lay asphalt pavement.	360
Thirteenth street northwest.	P to R street	Narrow carriageway and lay asphalt pavement.	6,800
Do	R to Boundary street	do	7,712
Fourteenth street northwest.	Pennsylvania avenue to F street.	Narrow carriageway and lay stone pavement.	3,800
Eighteenth street northwest.	P to Boundary street	Grade	4,500
Twenty-second street northwest.	M to Massachusetts avenue.	Grade, set curb, sidewalks, and gravel roadway.	9,000
C street northwest	Four-and-a-half to Seventh street.	Narrow carriageway and lay stone pavement.	9,608
F street northwest	Twenty-second to Twenty-seventh street.	Grade, set curb, sidewalk, and gravel carriageway.	10,160
H street northwest	Vermont avenue to Pennsylvania avenue.	Narrow carriageway and lay asphalt pavement.	18,000
I street northwest	Eighteenth street and Pennsylvania avenue.	do	12,000
Do	Eighth to Ninth and Tenth to Eleventh streets.	do	4,250
Do	Second to Fifth street	Narrow carriageway and lay stone pavement.	16,375
N street northwest	Twenty-second to Twenty-third street.	Grade	2,000
Q street northwest	Seventeenth to Nineteenth street.	Grade, set curb, sidewalks, and gravel roadway.	2,300
Do	Vermont avenue to Fourteenth street.	Lay asphalt pavement	5,900
S street northwest.	Sixteenth to Nineteenth st.	Grade, set curb, sidewalk, and gravel roadway.	5,430
T street northwest	Ninth to Tenth street	do	1,290
East Market Space	Georgetown	Grade, cobble pavement, and wooden bridges across canal.	1,666
			589,320

APPENDIX S 10.

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July* 1, 1880.

WASHINGTON.

[Streets marked thus * have been paved since July 1, 1878.]

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
North Capitol	B street north	C street north	50						2,333		
Do	C street north	Boundary	50						17,600	17,300	Gravel from K to boundary.
South Capitol	B street south	M street south	50						26,284		
Do	M street south	N street south	50				3,243				
Do	N street south	River	50							13,330	
1st street east	B street north	B street south	50	8,657							1,511 yards between R. R. tracks.
Do	do	C street north	35			2,010					
Do	C street north	K street north	35						9,994		
Do	K street north	Boundary	35							9,431	
Do	B street south	C street south	38			2,077					
Do	C street south	Canal	35						5,639		
Do	Canal	River	35							9,722	O. c. walk, curb, and gutter, I to N.
1st street west	Pennsylvania ave	Indiana avenue	56		8,332*		4,055				Cobble between R. R. tracks.
Do	Indiana avenue	F street north	40								
Do	G street north	H street north	32			1,493					
Do	H street north	I street north	32	700		487					Concrete from H to Defrees.
Do	I street north	K street north	32						1,124		
Do	K street north	Boundary	32							11,022	
Do	Pennsylvania ave	Maryland avenue	53			2,500	1,133				Cobble between R. R. tracks.
Do	Maryland avenue	M street south	35		17,920						
Do	M street south	N street south	34				2,314				
Do	N street south	River	35							14,733	
2d street east	Pennsylvania ave	Maryland avenue	32			4,768					
Do	Maryland avenue	H street north	32						9,707		
Do	H street north	Boundary	32							7,929	O. c. walk, curb, and gutter, G to L.
Do	Pennsylvania ave	D street south	32 / 35			5,232					
Do	D street south	Canal	35							6,708	O. c. walk, curb, and gutter, Virginia avenue to I.
Do	Canal	River	32							4,620	

2d street west	Pennsylvania ave...	New Jersey avenue.	40			15,377					
Do	B street south	Maryland avenue	32			1,130					
Do	do	D street south	32							24,900	O. c. walk, curb, and gutter, from B to D street.
Do	D street south	River	32							3,200	
3d street east	East Capitol	E street north	32						6,439		
Do	E street north	Boundary	32							13,867	
Do	East Capitol	Pennsylvania ave...	32			3,251					
Do	Pennsylvania ave...	C street south	32					895			
Do	C street south	D street south	32			2,774					
Do	D street south	Virginia avenue	32		5,030						
Do	Virginia avenue	L street south	32							3,020	O. c. walk, curb, and gutter.
Do	L street south	Georgia avenue	32				4,461				
3d street west	Pennsylvania ave...	D street north	32		4,230						
Do	D street north	New Jersey avenue.	40	19,480							
Do	M street north	Boundary	40							8,445	O. c. walk, curb, and gutter, 1,900 feet.
Do	Pennsylvania ave...	B street south	40			6,395					
Do	B street south	N street south	40							20,444	O. c. walk, curb, and gutter, B to G street.
4th street east	East Capitol	E street north	35						7,000		
Do	E street north	Boundary	35							14,700	From G to M street, east side improved.
Do	East Capitol	C street south	35			4,275					
Do	C street south	N street south	35				16,760				
4th street west	D street north	New York avenue..	32	14,291							3,968 yards between R. R. tracks.
Do	New York avenue..	O street north	32						3,769		
Do	O street north	Boundary	32							8,320	O. c. walk, curb, and gutter.
4½ street west	D street north	Missouri avenue	70				10,111				
Do	Missouri avenue	P street south	55					35,250			
5th street east	East Capitol	C street north	40						3,751		
Do	C street north	K street north	40							10,233	
Do	K street north	Boundary	40						6,524		
Do	East Capitol	C street south	40			5,111					
Do	C street south	G street south	40							5,155	O. c. walk, curb, and gutter, 1,160 feet.
Do	G street south	N street south	40							9,240	
5th street west	D street north	G street north	46				6,261				
Do	G street north	L street north	32	7,382							
Do	L street north	O street north	32	5,666*							
Do	O street north	Boundary	32						7,773		
6th street east	East Capitol	H street north	35						11,040		
Do	H street north	Boundary	35							7,147	
Do	North Carolina ave..	Pennsylvania ave...	35			1,127					
Do	Pennsylvania ave...	K street south	35					10,571			
Do	K street south	Georgia avenue	35							1,244	
Do	East Capitol	North Carolina ave..	35						3,175		
6th street west	Pennsylvania ave...	Louisiana avenue...	60				3,046				
Do	Louisiana avenue...	F street north	32	4,300							
Do	F street north	G street north	32			965					
Do	G street north	Massachusetts ave..	32				3,680				
Do	Massachusetts ave..	New York avenue ..	35				4,000				
Do	New York avenue..	Boundary	35			15,683					
Do	Pennsylvania ave...	D street south	60				13,283				

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July* 1, 1880—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way. Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	Remarks.
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
6th street west	D street south	Water street	40		23,179						
7th street east	East Capitol	Massachusetts ave	32						2,400		
Do	Massachusetts ave	Boundary	32						12,100	2,500	Unimproved from Maryland avenue to Massachusetts avenue.
Do	East Capitol	Pennsylvania ave	32						5,831		O. c. walk, curb, and gutter, A to Pennsylvania avenue.
Do	Pennsylvania ave	D street south	32			890					
Do	D street south	M street south	32							8,890	O. c. walk, curb, and gutter.
7th street west (west side)	Market Space	D street north	18			496					
Do	Pennsylvania ave	do	51	1,579			755				Cobble between R. R. tracks.
Do	D street north	Q street north	51		26,023*		10,861				Do.
Do	Q street north	Boundary	51				10,900				3,400 yards between R. R. tracks.
Do	Pennsylvania ave	Water street	51		24,107		10,577				Cobble between R. R. tracks.
8th street east	East Capitol	I street north	40						16,489		
Do	I street north	Boundary	40							5,444	
Do	East Capitol	Pennsylvania ave	40						5,511		O. c. walk, curb, and gutter.
Do	Pennsylvania ave	D street south	55			1,690					
Do	D street south	K street south	55		10,124						
Do	K street south	M street south	55			3,178					
8th street west	C street north	E street north	51			3,624					
Do	E street north	F street north	51	1,963							
Do	G street north	Mt. Vernon Place	30			3,910					
Do	Crossing	do	30	833							
Do	Mt. Vernon Place	L street north	30			1,193					
Do	L street north	N street north	30	3,610							
Do	N street north	R street north	30			5,670					
Do	R street north	Boundary	30						4,833		
Do	B street south	C street south	32							11,472	
Do	C street south	Water street	40								
9th street east	East Capitol	Boundary	32						1,067	15,900	Gravel from H to I. O. c. walk, curb, and gutter, East Capitol to C.
Do	do	Pennsylvania ave	32						6,179		O. c. walk, curb, and gutter.
Do	Pennsylvania ave	M street south	32							9,600	
9th street west	do	B street north	51		2,260*		945				Cobble between R. R. tracks

Do	do	P street north	51	22,070			10,293				Do.
9th street west (west side)	P street north	Boundary	51	6,147*			4,800				Do.
Do (east side)	do	do				5,676					
Do	B street south	Water street	32							7,680	O. c. walk, curb, and gutter. Intersection of Maryland avenue included in Maryland avenue measurement.
10th street east	East Capitol	Boundary	32						1,067	15,367	Gravel from H to I.
Do	do	Pennsylvania ave	32							15,644	O. c. walk, curb, and gutter.
Do	Pennsylvania ave	M street south	32								Do.
10th street west	do	B street north	32		3,103						Trap rock.
Do	D street north	E street north	51				2,301				
Do	E street north	F street north	32		1,372*						
Do	F street north	G street north	32			956					
Do	G street north	M street north	32	8,296							
Do	M street north	R street north	32			8,067					
Do	R street north	Boundary	32						1,600	8,444	Gravel from R to S street.
Do	D street south	Water street	32				5,000				
Do	B street south	Maryland avenue	32						2,500*		
11th street east	East Capitol	Boundary	32							15,758	
Do	Massachusetts ave	Pennsylvania ave	50					13,083			
Do	Pennsylvania ave	River	56					20,459			
11th street west	do	B street north	55				3,145				
Do	do	E street north	55	2,500*							
Do	E street north	F street north	55		1,734*		718				Cobble between R. R. tracks.
Do	F street north	G street north	55			1,214	510				Do.
Do	G street north	I street north	55	2,991			2,172				Do.
Do	I street north	K street north	35	875			566				Do.
Do	K street north	O street north	35			3,892	3,666				Do.
Do	O street north	Rhode Island ave	35				1,650				Do.
Do	Rhode Island ave	R street north	35				3,540				
Do	R street north	Boundary	35					11,263			
Do	B street south	Water street	40		10,511						
12th street east	Lincoln Square	Boundary	32							15,076	
Do	do	River	32							17,956	
12th street west	Pennsylvania ave	Ohio avenue	40		3,500						Trap rock.
Do	do	E street north	38	1,292*							
Do	E street north	F street north	38		1,627*						
Do	F street north	N street north	32	13,039							
Do	N street north	Rhode Island ave	32			3,249					
Do	Rhode Island ave	Boundary	32							11,947	
Do	B street north	Water street	40		17,306						
13th street east	East Capitol	Boundary	32							14,898	
Do	do	River	32							14,820	
13th street west	Pennsylvania ave	E street north	40	685*							
Do	E street north	F street north	40		1,741*						
Do	F street north	K street north	40	7,772							
Do	B street north	Pennsylvania ave	40	4,807*							
Do	K street north	Circle	32	8,090							
Do	Circle	Boundary	32							13,145	
Do	B street south	Maryland avenue	40	5,706							
Do	Maryland avenue	Water street	40							1,636	
13½ street west	Pennsylvania ave	B street north	35				5,005				

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1880*—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
13½ street west	B street south	Maryland avenue	32				4, 291				
14th street east	East Capitol	Boundary	35							11, 698	
Do	do	River	32							14, 791	
14th street west	B street north	B street south	40		7, 841						
Do	do	F street north	70				11, 634				
Do	F street north	Thomas Circle	70	16, 655*							
14th street west (east side)	Thomas Circle	Boundary		17, 120*							
14th street west (west side)	do	do				17, 120					
14th street west	B street south	Water street	40				6, 764				
15th street east	East Capitol	Boundary	32							12, 196	
Do	do	River	32							13, 796	
15th street west	Pennsylvania ave	B street north	43			7, 933					
Do	do	New York avenue	70	4, 478			1, 322				Cobble between R. R. tracks.
Do	New York avenue	H street north	50	7, 005							
Do	H street north	K street north	40								
Do	K street north	Rhode Island ave	32			7, 172					
Do	Rhode Island ave	S street north	32	7, 516							
Do	S street north	Boundary	32			5, 823					
15½ street west	Pennsylvania ave	H street north	40	1, 997							
16th street east	East Capitol	C street north	32							5, 973	
Do	do	Kentucky ave	32							8, 782	
16th street west	H street north	Boundary	50			37, 631					
16½ street west	Pennsylvania ave	H street north	40	2, 196							
17th street east	East Capitol	C street north	32							4, 196	
Do	do	River	32							12, 089	
17th street west	B street north	K street north	50	16, 729			3, 684				Cobble between R. R. tracks.
Do	I street north	P street north	32	12, 698							
Do	P street north	Q street north	32						1, 600		
Do	Q street north	R street north	32							1, 600	O. c. walk, curb, and gutter.
Do	R street north	Boundary	32							7, 022	O. c. walk, curb, and gutter, from T to Boundary.
18th street east	East Capitol	C street north	32							4, 196	
Do	do	Cemetery	32							7, 556	
18th street west	B street north	E street north	32							3, 751	

Do	E street north	New York ave	40	1,095							
Do	New York ave	Pennsylvania ave	38			5,400					
Do	Pennsylvania ave	K street north	38	4,741							
Do	K street north	L street north	32			1,315					
Do	L street north	P street north	32	7,584							
Do	P street north	Boundary	32							8,444	
19th street east	East Capitol	C street north	32							4,196	
Do	do	Cemetery	32							8,676	
19th street west	E street north	New York ave	32				1,028			3,644	Cobble, west side Rawlins Square.
Do	do	Pennsylvania ave	40	6,421							
Do	Pennsylvania ave	Dupont Circle	40-32			11,923					Between Pa. ave. and K, 40; between K and Circle, 32.
Do	Dupont Circle	T street north	30	7,598							
20th street east	East Capitol	C street north	32							4,196	
Do	do	Almshouse	32							2,560	
20th street west	B street north	E street north	32							3,662	
Do	E street north	Pennsylvania ave	32	5,579							
Do	Pennsylvania ave	K street north	32	981*	1,349*						Granite from I to K.
Do	K street north	R street north	32	10,367							
Do	R street north	Boundary	32				2,895				
21st street east	East Capitol	C street north	32							4,196	
Do	do	B street south	32							2,560	
21st street west	B street north	E street north	32							3,662	
Do	E street north	Pennsylvania ave	32	6,101							
Do	Pennsylvania ave	K street north	32		1,395*						
Do	K street north	Massachusetts ave	32	10,892							
Do	Q street north	Boundary	32							3,556	
22d street east	East Capitol	C street north	32							4,196	
Do	do	B street south	32							2,560	
22d street west	B street north	Virginia ave	32							3,758	
Do	E street north	G street north	32				2,927				
Do	G street north	Pennsylvania ave	32	4,641							
Do	K street north	M street north	32			2,852					
Do	M street north	Boundary	32							6,660	
23d street east	East Capitol	C street north	32							4,196	
Do	do	B street south	32							2,560	
23d street west	Virginia ave	E street north	32						1,778		
Do	E street north	Upper Water	32							3,413	
Do	F street north	Pennsylvania ave	32				5,067				
Do	Pennsylvania ave	M street north	32			2,778					
Do	M street north	Rock Creek	32							3,699	
24th street east	East Capitol	C street north	32							4,196	
Do	do	B street south	32							2,560	
24th street west	E street north	G street north	32							2,069	
Do	G street north	Pennsylvania ave	32				5,192				
Do	Pennsylvania ave	M street north	32				2,540				
Do	M street north	Rock Creek	32							4,128	
25th street west	Virginia ave	River	32							5,735	
Do	Pennsylvania ave	Virginia ave	32				945			3,733	Cobble from K to Penna. ave.
Do	do	Rock Creek	30							5,440	
26th street west	G street north	D street north	32						3,378		
Do	do	K street north	32				5,042				

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July* 1, 1880.—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
26th street west	K street north	Pennsylvania ave	32			2,107					
Do	Pennsylvania ave	M street north	32	919			505				Cobble between R. R. tracks.
27th street west	E street north	L street north	32							8,651	
East Capitol	1st street east	9th street east	50	10,511*			6,044				Concrete full width to 4th, south side to 9th, cobble between R. R. tracks.
Do	4th street east	11th street east	50			10,050					Full width 9th to 11th, north side 4th to 9th.
Do	11th street east	Eastern Branch	50							25,822	
A street north	1st street east	2d street east	35			2,491					
Do	2d street east	4th street east	35						2,788		
Do	4th street	Eastern Branch	35							26,500	O. c. walk, curb, and gutter from 4th to 11th.
A street south	1st street east	3d street east	35			3,576					
Do	3d street east	9th street east	35						8,750		
Do	Massachusetts ave	Eastern Branch	35							14,800	
B street north	Delaware avenue	Maryland avenue	46	5,690			1,819				Cobble between R. R. tracks.
Do	Maryland avenue	11th street east	35						6,000		
Do	11th street east	Eastern Branch	35							22,000	
B street south	New Jersey avenue	Pennsylvania ave	45	4,282			2,205				Cobble between R. R. tracks.
Do	Pennsylvania ave	5th street east	35			3,056					
Do	5th street east	7th street east	35						2,998		
Do	7th street east	12th street east	35							4,946	O. c. walk, curb, and gutter.
Do	12th street east	Eastern Branch	32							13,945	
B street north	6th street west	7th street west	56				3,132				
Do	7th street west	12th street west	101				18,686				
Do	12th street west	17th street west	60		23,582						
Do	17th street west	23d street west	60							18,680	
Do	1st street west	Delaware avenue	46		5,750						
Do	....do	3d street west	35		3,256*						
B street south	....do	New Jersey avenue	35		2,100	1,983					Cobble between R. R. tracks.
Do	... do	Maryland avenue	35			5,404					
Do	6th street west	14th street west	32	12,840*							
C street north	Delaware avenue	3d street east	38 32			6,330					

Do	3d street east	4th street east	32						1,450		
Do	6th street east	Eastern Branch	32							26,204	
C street south	South Capitol	New Jersey avenue	32							890	
Do	New Jersey avenue	3d street east	32						6,192		
Do	3d street east	4th street east	32					1,175			
Do	4th street east	6th street east	30			3,786					
Do	6th street east	7th street east	32						1,985		
Do	7th street east	19th street east	32							11,335	O. c. walk, curb, and gutter from 7th to 11th street.
C street north	Delaware avenue	New Jersey avenue	46		4,909*		2,510				Cobble between R. R. tracks.
Do	New Jersey avenue	1st street west	63								
Do	4½ street west	2d street west	30			3,644					
Do	do	Louisiana ave., intersection.	46				5,060				
Do	7th street west	8th street west	46		1,183*						
Do	9th street west	10th street west	40		1,656						
Do	10th street west	15th street west	40				7,820				
Do	17th street west	23d street west	32							7,484	
C street south	South Capitol	7th street west	35							7,842	25 feet between South Capitol and 1st street west.
Do	7th street west	9th street west	40		4,450						
Do	9th street west	14th street west	35						6,723		
D street north	North Capitol	15th street east	32							14,314	
D street south	South Capitol	New Jersey avenue	35							1,750	
Do	New Jersey avenue	3d street east	35						5,250		
Do	2d street east	do	35			1,498					
Do	3d street east	6th street east	35							3,267	Needs gutter and gravel in roadway.
Do	6th street east	7th street east	35				1,890				
Do	7th street east	8th street east	30			931					
Do	8th street east	19th street east	32							17,810	
D street north	North Capitol	New Jersey avenue	35							1,556	
Do	New Jersey avenue	3d street west	36	3,818			2,266				Cobble between R. R. tracks.
Do	6th street west	10th street west	36		6,278*						
Do	12th street west	14th street west	40				3,614				
Do	14th street west	15th street west	40			1,961					
Do	17th street west	23d street west	35							8,273	
D street south	South Capitol	4½ street west	35							7,800	
Do	4½ street west	14th street west	35				10,815				
E street north	North Capitol	Delaware avenue	35							2,140	O. c. walk, curb, and gutter.
Do	Delaware avenue	Maryland avenue	35						12,810		
Do	Maryland avenue	15th street east	35							9,042	
E street south	South Capitol	New Jersey avenue	35							2,334	
Do	1st street east	6th street east	35							10,920	Curb set on north side.
Do	6th street east	19th street east	35							17,686	O. c. walk, curb and gutter from 6th street to Pennsylvania avenue.
E street north	North Capitol	New Jersey avenue	35							2,140	
Do	New Jersey avenue	4th street west	35		4,932*						
Do	5th street west	11th street west	40		9,323*						
Do	11th street west	13th street west	40			2,487*					
Do	13th street west	Pennsylvania ave	41, 48		1,093*						Asphalt blocks.
Do	14th street west	15th street west	40			1,965					
Do	17th street west	19th street west	32				4,637				

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1880*—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
E street north	19th street west	Virginia avenue	32				5,831				
Do	Virginia avenue	23d street west	32						1,600		
Do	23d street west	27th street west	32							5,871	
E street south	South Capitol	14th street west	35							31,049	O. c. walk, curb, and gutter from 2d to 11th street.
F street north	North Capitol	Maryland avenue	35						20,000		
Do	Maryland avenue	15th street east	35							6,200	
Do	North Capitol	New Jersey avenue	35						2,625		
Do	New Jersey avenue	4th street west	35	4,382*							
Do	5th street west	7th street west	51	5,090*			1,419				Cobble between R. R. tracks.
Do	7th street west	9th street west	57	1,913*	527*		771				Do.
Do	9th street west	15th street west	60	11,684			4,100				Do.
Do	17th street west	18th street west	40			2,580					
Do	18th street west	22d street west	40	8,790							
Do	22d street west	27th street west	32							6,947	
F street south	South Capitol	4½ street west	35							7,775	O. c. walk, curb, and gutter.
Do	4½ street west	7th street west	35	4,206							
Do	7th street west	Water street	35				6,838				
G street north	North Capitol	15th street east	35						9,825	15,175	Gravel from 6th to 13th street.
G street south	3d street east	17th street east	35							20,906	O. c. walk, curb, and gutter from 11th to 14th street.
G street north	North Capitol	1st street west	35						3,210		O. c. walk, curb, and gutter on south side.
Do	1st street west	7th street west	35	8,683			1,890				Cobble between R. R. tracks.
Do	7th street west	15th street west	40	15,097							
G street north	17th street west	22d street west	36	10,275							
Do	22d street west	27th street west	36		9,511						
G street south	South Capitol	4½ street west	35							8,167	O. c. walk, curb, and gutter from 2d to 4½ street.
Do	4½ street west	11th street west	35	10,982							
H street north	North Capitol	1st street east	56			4,200		1,748			Cobble between R. R. tracks.
Do	1st street east	15th street east	56				42,244				11,529 yards between R. R. tracks.
Do	North Capitol	1st street west	50								
Do	1st street west	4th street west	56		8,337*			3,307			Cobble between R. R. tracks.

Do	3d street west	7th street west	56			550	8,915				Wood between 3d and 4th, north of Massachusetts avenue
Do	7th street west	13th street west	35	9,067							
Do	13th street west	14th street west	40	2,144							
Do	14th street west	15th street west	56				2,308				
Do	15th street west	15½ street west	56	1,729							
Do	Vermont avenue	19th street west	56				8,915				
Do	Pennsylvania ave	22d street west	32	6,493							
Do	22d street west	27th street west	32				9,422				
H street south	South Capitol	Water street	35							5,920	
I street north	North Capitol	Boundary	35						11,931	11,435	Gravel from 7th to Boundary and North Capitol to 1st street east, south side o. c. walk, curb, and gutter to 7th street.
I street south	South Capitol	Georgia avenue	35							17,365	O. c. walk, curb, and gutter, 3d to 5th and 7th to 11th.
I street north	North Capitol	New Jersey avenue	35	4,557							
Do	New Jersey avenue	Massachusetts ave	35				8,710				
Do	5th street west	8th street west	32	4,210*							
Do	8th street west	9th street west	32				1,484				
Do	9th street west	10th street west	32	2,090*							
Do	10th street west	11th street west	32				1,244				
Do	11th street west	15th street west	40	8,332							
Do	15th street west	Vermont avenue	56	8,322							
Do	Vermont avenue	17th street west	40								
Do	17th street west	18th street west	40				3,360				
Do	18th street west	19th street west	40				2,115				
Do	19th street west	20th street west	40		2,006						
Do	20th street west	Pennsylvania ave	40				1,351				
Do	Pennsylvania ave	26th street west	40					13,832			
I street south	South Capitol	Water street	35							12,776	O. c. walk, curb, and gutter, 4½ to 7th street.
K street north	North Capitol	7th street east	50						19,556		
Do	7th street east	Boundary	50							8,378	
K street south	South Capitol	Canal	35							4,938	
Do	Canal	7th street east	60							7,430	Baltimore and Potomac R. R. tracks 20 feet wide.
Do	7th street east	Eastern Branch	35							12,130	O. c. walk, curb, and gutter, from 7th to 14th street.
K street north	North Capitol	3d street west	50				8,083				
Do	3d street west	7th street west	50	8,384							
Do	7th street west	9th st. west	N. S. 30, S. S. 53–5	5,418							
Do	9th street west	18th street west	50	27,551							
Do	18th street west	Pennsylvania ave	50			12,050					
Do	24th street west	28th street west	50		12,571						
K street south	South Capitol	Water street	35							11,155	O. c. walk, curb, and gutter, from 1st to 2d street.
L street north	North Capitol	Boundary	32							15,154	
L street south	South Capitol	Eastern Branch	35							24,234	O. c. walk, curb, and gutter, from 3d to 5th, and from 7th to 9th street.
L street north	North Capitol	New Jersey avenue	32						8,090		O. c. walk, curb, and gutter.

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1880*—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
L street north	New Jersey avenue	4th street west	32	2,072							
Do	4th street west	5th street west	32		2,665						
Do	5th street west	6th street west	32	1,425							
Do	6th street west	8th street west	32			2,538					
Do	8th street west	11th street west	32	4,041							
Do	11th street west	20th street west	32	17,862							
Do	20th street west	Pennsylvania ave	32			6,997					
Do	26th street west	Rock Creek	32							1,422	
L street south	South Capitol	Water street	35							11,890	O. c. walk, curb, and gutter, from 1st to 6th street.
M street north	North Capitol	1st street east	32						2,845		
Do	1st street east	Boundary	32						7,964		
M street south	4th street east	4½ street west	35				21,874				2,555 yards, between railroad tracks.
Do	....do	Eastern Branch	35							14,784	O. c. walk, curb, and gutter, 7th to 11th street, north side.
Do	4½ street west	Water street	35							3,960	
M street north	North Capitol	New Jersey avenue	32						4,266		
Do	New Jersey avenue	6th street west	32			8,014					
Do	6th street west	14th street west (Circle).	32	13,147*							
Do	14th street west (Circle).	16th street west	40			4,570					
Do	16th street west	N. Hampshire ave	40	11,875*							
Do	N. Hampshire ave	26th street west	40			9,855					
N street north	North Capitol	Boundary	32							7,300	
N street south	3d street east	6th street west	35				19,520				
Do	9th street east	Eastern Branch	32							4,878	
N street north	North Capitol	New Jersey avenue	32							5,664	
Do	New Jersey avenue	5th street west	32						2,844		
Do	5th street west	9th street west	32			6,689					
Do	9th street west	14th street west	32	6,802*							
Do	14th street west	Scott Square	32			3,800					
Do	Scott Square	21st street west	32	7,074							
Do	21st street west	Rock Creek	32							7,189	
O street north	North Capitol	Boundary	32							4,622	
O street south	South Capitol	Eastern Branch	32							5,335	

O street north	North Capitol	New Jersey avenue	32							6,172	
Do	New Jersey avenue	13th street west	32	14,530							
Do	15th street west	16th street west	32	1,663							
Do	16th street west	17th street west	32			1,719					
Do	20th street west	Rock Creek	32							4,395	
O street south	South Capitol	Water street	32							8,530	
P street north	North Capitol	Boundary	32						3,510		
P street south	South Capitol	Eastern Branch	32							2,490	
P street north	North Capitol	New Jersey avenue	32							5,417	
Do	New Jersey avenue	18th street west	32			26,408					1,555 yards between R. R. tracks.
Do	18th street west	Dupont Circle	32	1,569							
Do	20th street west	22d street west	40		3,481*						
Do	22d street west	Rock Creek	40	674							
P street south	South Capitol	Water street	30							9,000	
Q street south	do	Canal	30							4,346	
Q street north	Boundary	5th street west	32							4,750	
Do	5th street west	14th street west	32						11,776		
Do	14th street west	16th street west	32	4,806							
Do	16th street west	19th street west	32							6,048	
Do	19th street west	20th street west	32	862							
Do	21st street west	22d street west	32	883							
Q street south	South Capitol	Arsenal	30							4,367	
R street north	Boundary	9th street west	32						9,383		
Do	9th street west	14th street west	32			10,680					
Do	14th street west	16th street west	32	4,502							
Do	16th street west	Boundary	32							9,967	
R street south	South Capitol	Arsenal	30							4,900	
S street north	New Jersey avenue	Vermont avenue	32						8,117		
Do	Vermont avenue	16th street west	32	8,811							
Do	16th street west	Boundary	32							8,967	O. c. walk, curb, and gutter, 17th to 19th streets.
S street south	South Capitol	Arsenal	30							4,900	
T street north	Boundary	Vermont avenue	32						5,170		
Do	Vermont avenue	Boundary	32					14,707			
T street south	4½ street west	Arsenal	30							3,620	
U street north	Vermont avenue	Boundary	32							14,180	
U street south	Arsenal	Eastern Branch	30							3,633	
V street north	Vermont avenue	Boundary	32							13,335	
V street south	Arsenal	Eastern Branch	30							3,134	
W street north	Boundary	Boundary	32							10,310	
Boundary	Massachusetts ave	9th street west	46					43,414			
Do	7th street west	do	45		2,304						
Do	6th street west	7th street west	46					3,019			
Do	do	15th street east	46						5,662	54,248	Gravel from 6th to 8th streets.
Connecticut avenue	H street north	I street north	50	2,210							
Do	K street north	Dupont Circle	50	14,050			4,946				Cobble between R. R. tracks.
Do	Dupont Circle	Boundary	50	7,780							
Delaware avenue	B street north	C street north	50		2,056*						
Do	C street north	Boundary	50							3,000	
Do	B street south	P street south	50							32,775	
Georgia avenue	19th street east	Eastern Branch	50							35,556	
Indiana avenue	1st street west	3d street west	120				16,025				

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July* 1, 1880—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	
Kentucky avenue	Lincoln Square	Eastern Branch	50							24,445	
Louisiana avenue	6th street west	7th street west	120			2,670	3,371				
Do	Pennsylvania ave	9th street west	50		1,137*						
Do	9th street west	10th street west	78.5		4,765						
Maine avenue	3d street west	6th street west	35				4,635				
Maryland avenue	1st street west	3d street west	60			5,955					1,611 yards between R. R. tracks.
Do	3d street west	7th street west	60				12,803				3,494 yards between R. R. tracks.
Do	9th street west	Water street	29–30		21,849						Two roadways, one 29 and one 30 wide.
Do	1st street east	15th street east	60						34,445		
Massachusetts avenue	Boundary	Dupont Circle	50	5,817							
Do	Dupont Circle	Scott Square	50	8,348							
Do	Scott Square	Thomas Circle	50	5,550							
Do	Thomas Circle	9th street west	50	12,910							
Do	7th street west	New Jersey avenue	50			13,535					
Do	New Jersey avenue	11th street east	50						32,225		
Do	11th street east	19th street east	50							20,000	
Missouri avenue	3d street west	4½ street west	35			2,535					
Do	4½ street west	6th street west	35				2,452				
New Hampshire avenue	27th street west	G street north	50							5,000	
Do	Pennsylvania ave	do	50				7,967				
Do	do	M street north	50	6,992*							
Do	M street north	Dupont Circle	50			8,883					
Do	Dupont Circle	Boundary	50						14,084	7,872	Gravel to T.
New Jersey avenue	B street north	D street north	60	5,247							
Do	C street north	do	60		1,177		225				Cobble between R. R. tracks.
Do	D street north	H street north	60			13,900					
Do	H street north	O street north	50			20,500					
Do	O street north	Boundary	50							12,775	
Do	B street south	E street south	50		9,381*						
Do	E street south	Canal	50		7,519						
Do	Canal	M street south	50					6,888			
Do	M street south	N street south	50							3,112	
New York avenue	19th street west	23d street west	50							11,388	
Do	18th street west	17th street west	50	3,766							
Do	15th street west	14th street west	86	3,424			876				Cobble between R. R. tracks.

Do	9th street west	do		19,880				25,964			Two roadways of 29 feet each
Do	7th street west	North Capitol	50							7,777	
Do	North Capitol	Boundary	50						19,000		
North Carolina avenue	New Jersey avenue	Lincoln Square	50							11,110	
Do	Lincoln Square	C street south	50								
Ohio avenue	B street north	15th street north	60				11,335				2,164 yards between R. R. tracks.
Pennsylvania avenue	Rock Creek	26th street west	80	3,110							
Do	26th street west	Washington Circle	80	4,400		4,000	2,261				Cobble between R. R. tracks.
Do	Washington Circle	17th street west	80	21,000			5,666				Do.
Do	17th street west	15th street west	85	11,925*			3,116				Do.
Do	15th street west	1st street west	108.5	78,521*	12,816						Granite between R. R. tracks.
Do	1st street east	8th street east		33,804							One roadway 50 feet to 2d street; two of 38 feet each to 8th street.
Do	8th street east	11th street east						8,445			Two roadways 38 feet each.
Do	11th street east	Eastern Branch	50							17,775	O. c. walk, curb, and gutter from 11th to 14th street.
Rhode Island avenue	Connecticut avenue	Scott Square	50	5,410							
Do	Scott Square	Iowa Circle	50			7,776					
Do	Iowa Circle	5th street west	50			17,517					
South Carolina avenue	2d street east	8th street east	50						3,335	5,554	Gravel 6th to 7th streets.
Do	7th street east		40			1,200					
Do	8th street west	Massachusetts ave	50							17,225	
Tennessee avenue	Lincoln Square	15th street east	50							15,560	
Virginia avenue	2d street east	11th street east	50						46,665		O. c. curb; width, 120 feet.
Do	11th street east	Eastern Branch	50							21,333	Virginia avenue, from 3d street to 4th street, new width.
Do	South Capitol	7th street west	50						20,556		
Do	7th street west	B street south	50							9,445	
Do	B street north	G street north	50						21,110		
Do	G street north	27th street west	50							9,167	
Vermont avenue	H street north	I street north	93	4,156							
Do	K street north	Thomas Circle	50	6,536							
Do	Thomas Circle	Iowa Circle	50	6,149							
Do	Iowa Circle	Boundary							1,666	14,344	
City Hall Space	3d street west	6th street west	120			13,521	3,089				
Intersection of Louisiana ave., 7th and C streets.				3,214*							Asphalt blocks.
Intersection of Louisiana and Ohio avenues.	10th street west	12th street west	50		3,460						
Mount Vernon Place	7th street west	9th street west		3,809							
Thomas Circle	Intersection	14th and M streets	70	6,000*			440				Cobble between R. R. tracks.
Iowa Circle	do	13th and P streets	50	8,838							
Scott Square	do	16th and N streets		12,560							
Dupont Circle	do	19th and P streets	70	7,260			250				Cobble between R. R. tracks.
Washington Circle	do	23d and K streets	70	8,450			1,100				Do.
Opera Space	do	9th and C streets			600						
Carroll street	1st street east	2d street east	30						2,030		
Corcoran street	13th street west	14th street west	30	2,067							
Do	14th street west	17th street west	24	2,129					1,134	1,134	
Defrees street	1st street west	North Capitol	22.5						1,937		
De Sales street	17th street west	Connecticut ave	40	2,493							
Franklin street	New Jersey ave	5th street west	30						1,667		

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1880*—Continued.

WASHINGTON—Continued.

Street.	From—	To—	Carriage-way.								Remarks.
			Width.	Asphalt or concrete.	Granite.	Wood.	Cobble and blue rock.	Macadam.	Gravel.	Unimproved.	
			Feet.	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds.*	*Sq. yds*	*Sq. yds.*	
French street	9th street west	10th street west	30						1, 633		
Grant Place	do	do	24	1, 435							
Highland Terrace	14th street west	15th street west	21. 5	1, 248							
Jackson street	North Capitol	1st street east	20				1, 738				
Jefferson street	Connecticut ave	19th street west	27						800		
Kingman court	P street north	Q street north	30						1, 500		
Madison street	M street north	N street north	30						1, 666		
Marion street	P street north	R street north	30–32						2, 600		
Myrtle street	North Capitol	1st street east	20						1, 738		
Pierce street	14th street west	15th street west	30	2, 154							
Riggs street	13th street west	14th street west	30						1, 845		
Samson street	14th street west	17th street west	24	2, 674					1, 440		
Sunderland Place	N. Hampshire ave	20th street west	30						770		
Union street	M street south	O street south	40				5, 333				
Washington street	4th street west	5th street west	35						3, 850		
Water street	7th street west	12th street west	50		16, 858						
Do	12th street west	14th street west	50							5, 556	
Do	7th street west	6th street west	50			3, 682					
Do	6th street west	O street south	50		3, 359						
GEORGETOWN.											
Bridge street	Rock Creek	Congress street	50	9, 026			2, 833				Cobble between R. R. tracks.
Do	Congress street	Lingan street	50		13, 684		1, 322				Do.
Water street	Rock Creek	Aqueduct	50		18, 021						
Olive street	do	Montgomery	44							1, 566	
Do	Montgomery	Washington	30				1, 946				
Prospect street	High	Potomac	30				2, 504				
Do	Potomac	Lingan	30							4, 339	O. c. walk, curb, and gutter.
Gay street	Rock Creek	Montgomery	30				959			870	Cobble from Montgomery to Monroe.
Do	Montgomery	High	30			5, 430					
1st street	High	Fayette	30			5, 834					
Do	Fayette	Warren	30							2, 283	O. c. walk, curb, and gutter.
2d street	High	Fayette	30		4, 435*		780				Cobble between R. R. tracks.
Do	Fayette	Warren	30						2, 283		O. c. walk, curb, and gutter.

Dunbarton street	Rock Creek	Monroe	30							1,166	
Do	Monroe	Greene	30				1,843				
Do	Greene	Congress	30				444		2,072		Cobble between R. R. tracks.
Do	Congress	High	30				1,458				
Beall	High	Montgomery	30						6,083		
Do	Montgomery	Rock Creek	30							3,166	
3d street	High	Warren	30							6,434	O. c. walk, curb, and gutter from High to Fayette.
West	Rock Creek	Montgomery	40								
Do	Montgomery	High	30		10,880*		4,113				Cobble between R. R. tracks.
4th street	High	Fayette	30							3,800	O. c. walk, curb, and gutter from High to Frederick.
Stoddard	....do	Montgomery	30							6,867	O. c. curb, walk, and gutter part of way on south side.
5th street	....do	Fayette	30							3,365	O. c. walk, curb, and gutter from High to Frederick.
6th street	Market	....do	30							2,650	
7th street	High	....do	30							2,567	
8th street	....do	....do	30							2,067	
Road	....do	Montgomery	30						9,000		
Monroe	Bridge	West	30							4,750	
Montgomery	....do	....do	30				5,479				
Do	West	Road	30						4,610		
Greene	Bridge	Water	30				2,919				
Do	....do	West	30			5,075					
Do	West	Road	30							4,610	O. c. walk, curb, and gutter.
Washington	Bridge	Water	30				2,733				
Do	....do	Gay	30		2,121*						
Do	Gay	West	30							2,750	O. c. walk, curb, and gutter.
Do	West	Stoddard	30					1,310			
Do	Stoddard	Road	30							2,260	O. c. walk, curb, and gutter.
Jefferson	Bridge	Water	32				2,839				
Congress	....do	....do	30				3,034				
Do	....do	West	30			4,796					
Do	West	Road	30							4,950	O. c. walk, curb, and gutter.
High	Bridge	Water	35				3,540				
Do	....do	West	35		6,202*						
Do	West	Road	35				6,416				
Potomac	Bridge	Canal	30				1,071				
Do	....do	2d street	30		389*	2,483					
Market	....do	1st street	30						1,750		O. c. walk, curb, and gutter.
Do	1st street	3d street	30			2,050					
Do	3d street	High	30							4,334	O. c. walk, curb, and gutter on one side.
Do	Bridge	Canal	30				1,071				
Frederick	Canal	High	30							13,334	
Fayette	Bridge	Prospect	30				975				
Do	Prospect	8th street	60						24,000		O. c. walk, curb, and gutter,
Lingan	....do	3d street	30							3,166	
Warren	Bridge	....do	30							4,167	
Mill	West	North	30							1,500	East side improved.
Grace	Potomac	High	20		1,328						

TABLE E.—*Statement of character and extent of street pavements in Washington and Georgetown, July 1, 1880*—Continued.

SUMMARY STATEMENT.

Carriage-way.	Washington.		Georgetown.		Total.		Miles.
	Length in feet.	Square yards.	Length in feet.	Square yards.	Length in feet.	Square yards.	
Concrete	212, 230	972, 322	2, 450	9, 026	214, 680	981, 348	40. 66
Granite and trap rock	63, 590	354, 714	14, 980	57, 060	78, 570	411, 774	14. 87
Wood	109, 340	483, 813	7, 410	25, 668	116, 750	509, 481	22. 11
Cobble and blue rock	81, 360	510, 752	13, 800	48, 279	95, 160	559, 031	18. 02
Macadam	39, 000	214, 020	350	1, 310	39, 350	215, 330	7. 45
Gravel	148, 630	599, 461	18, 010	49, 798	166, 640	649, 259	31. 56
Total improved	654, 150	3, 135, 082	57, 000	191, 141	711, 150	3, 326, 223	134. 67
Unimproved	481, 250	1, 712, 580	23, 600	86, 961	504, 850	1, 799, 541	95. 62

APPENDIX S 11.

CURRENT REPAIRS OF STREETS AND ALLEYS.

TABLE F.—*Statement showing character of work and cost of labor and material from June 30, 1879, to July 1, 1880.*

Salaries and expense of office	$3,900 00	.....	$3,900 00
Miscellaneous expenses, inspectors, &c	5,399 25	.....	5,399 25
Cleaning traps	4,372 99	.....	4,372 99
Repairing traps	1,419 60	$533 49	1,953 09
Cleaning sewers	8,793 15	.....	8,793 15
Repairing streets, avenues, and alleys	28,589 99	4,822 47	33,412 46
Repairing bridges (material)	.....	115 88	115 88
Total	52,474 98	5,471 84	57,946 82

Statement showing amount and kind of work done in various localities other than ordinary repairs.

Cobblestone pavement, new	yards..	10,365
Gutter stone laid, new	feet..	6,029
Curbing set, new	do...	1,491
Sewer laid, 6-inch, new	do...	1,725
8-inch, new	do...	285
12-inch, new	do...	697
15-inch, new	do...	311
30-inch, new	do...	30
Sewer traps	number..	18
Brick pavement, new	yards..	997
Pump-hydrant drops, new	number..	75

ORDINARY REPAIRS.

Cobble pavement relaid	yards..	19,955
Curb reset	feet..	4,067
Gutter stone reset	do...	8,083
Brick pavement relaid	yards..	12,672
Sewer-traps repaired	number..	125
Streets graveled, 9-inches deep	square yards..	89,110

Gutters cleaned and other sanitary work performed upon complaint or observation.

E. M. CHAPIN.
Superintendent of Repairs.

SEPTEMBER 15, 1880.

APPENDIX S 12.

TABLE G.—*Statement of expenditures on various roads and streets in the county from July 1, 1879, to June 30, 1880.*

EASTERN DISTRICT.

Benning's	$535 00	Ridge	$2 75
Bald Eagle hill	31 37	Race course road	9 00
Bowen	334 33	River road	849 64
Central avenue	7 87	Stanton avenue	55 00
Good Hope	73 87	Sheridan avenue	74 00
Giesborough	42 50	Suit	57 12
Hamilton	5 25	Sheriff	26 00
Hunter	114 75	Walker	45 62
Harrison street	1 00	Wheeler	128 47
Kelly	13 25	Material, &c	210 43
Livingston	95 50	Salary	900 00
Monroe street	84 25		
Nichols avenue	674 87		4,371 84

MIDDLE DISTRICT.

Blair	$24 60	Pomeroy street	$389 02
Brentwood	194 18	Pierce mill	62 99
Braddick	246 87	Piney Branch	81 12
Bunker Hill	345 55	Queen's Chapel	37 87
Benning's Bridge road	250 50	Riggs	99 00
Columbia	766 09	Rock Creek Church	438 09
Chase	11 00	Sandy Spring	29 12
College	106 95	Sheridan street	7 80
Center street	79 75	Sherman avenue	17 05
Fifth street extended	26 50	Seventh street	1,016 19
Fourteenth street	656 56	Sixth street extended	196 95
Harewood	93 37	School-house lane	2 50
Lincoln avenue	25 50	Sargent road	96 75
Military	101 62	Spring street	5 00
Magnolia avenue	34 70	Trumbull street	1 00
Mount Pleasant street	140 12	Material, &c	793 08
Ninth street extended	607 86	Salary	900 00
Nineteenth street extended	170 19		
			7,965 44

WESTERN DISTRICT.

Brookeville road	$817 96	Pierce mill road	$27 00
Broad branch road	392 99	Red lane	3 50
Canal road	594 90	River road	36 90
Dyer's road	42 00	Swart road	16 50
Daniel's road	104 30	Tunlaw road	3 50
Foxhall lane	421 37	Woodley lane	265 24
Grant road	41 13	Material	411 50
Loughborough lane	26 25	Salary	900 00
Murdock mill road	58 90		
Military road	11 00		6,685 25
New cut road	2,510 31		

RECAPITULATION.

Eastern district	$4,371 84
Middle district	7,965 44
Western district	6,685 25
	19,022 53

APPENDIX S 13.

TABLE H.—*Varieties of trees planted by the parking commission in the several streets and avenues in the cities of Washington and Georgetown, D. C.*

WASHINGTON.

Where planted.			Variety of tree.
Street.	From—	To—	
First street east	New Jersey avenue south	F street north	American elm.
Second street east	D street south	G street south	Soft maple.
Third street east	Georgia avenue south	L street south	Buttonwood.
Do	Virginia avenue south	E street north	Do.
Do	K street north	L street north	Do.
Fourth street east	N street south	E street north	Soft maple.
Do	H street north	L street north	Do.
Fifth street east	C street south	D street north	American linden.
Do	K street north	Boundary street north.	Do.
Sixth street east	K street south	H street north	Soft maple.
Do	K street north	Boundary street north.	Do.
Seventh street east	A street south	Massachusetts avenue north.	Buttonwood.
Do	Maryland avenue north	Boundary street north.	Do.
Eighth street east	A street south	I street north	Soft maple.
Ninth street east	do	B street north	Box elder.
Do	Maryland avenue north	K street north	Do.

TABLE H.—*Varieties of trees planted by the parking commission, &c.*—Continued.

WASHINGTON—Continued.

Where planted.			Variety of tree.
Street.	From—	To—	
Tenth street east	East Capitol street	I street north	Buttonwood.
Eleventh street east	Pennsylvania avenue south.	Massachusetts avenue north.	Soft maple.
Twelfth street east	do	K street south	American ash (west side).
First street west	N street south	Maryland avenue south	American elm.
Do	Maryland avenue south.	Pennsylvania avenue south.	Norway maple (west side).
Do	do	do	Weeping elm (in parking).
Do	Indiana avenue north	K street north	Norway maple.
Do	Pennsylvania avenue	Indiana avenue north	American elm.
Second street west	B street south	Maryland avenue south	Sweet gum.
Do	Pennsylvania avenue	K street north	American linden.
Third street west	B street south	M street south	Soft maple.
Do	Maryland avenue	Pennsylvania avenue	Sugar maple (in parking).
Do	B street south	Maryland avenue	Honey locust (in parking).
Do	P street north	Q street north	Soft maple.
Fourth street west	Indiana avenue	G street north	European linden.
Do	G street north	O street north	Box elder.
Do	Q street north	R street north	Carolina poplar.
Four-and-a-half street west.	P street south	Maine avenue	American elm.
Fifth street west	G street north	Boundary north	Carolina poplar.
Sixth street west	Water street south	B street south	Buttonwood.
Do	D street north	Massachusetts avenue	Soft maple.
Do	New York avenue	Boundary north	Do.
Do	Missouri avenue	Water street south	Buttonwood.
Eighth street west	H street south	F street south	Carolina poplar.
Do	B street south	C street south	Carolina poplar (east side).
Do	G street north	R street north	Norway maple.
Do	R street north	Boundary north	Carolina poplar.
Ninth street west	D street south	Virginia avenue	Soft maple.
Do	Louisiana avenue	Pennsylvania avenue	Do.
Do	G street north	Boundary north	Do.
Tenth street west	Water street south	B street south	American elm.
Do	B street north	S street north	Soft maple.
Eleventh street west	Water street south	B street south	Buttonwood.
Do	B street north	Boundary street	Do.
Twelfth street west	Water street south	B street south	Soft maple.
Do	B street north	Q street north	Do.
Thirteenth street west.	Maryland avenue south	B street south	American ash.
Do	B street north	Pennsyvania avenue	Carolina poplar.
Do	Pennsylvania avenue	Iowa Circle	Norway maple.
Do	Iowa Circle	U street north	Horse chestnut.
Thirteenth-and-a-half street west.	Maryland avenue south	B street south	Carolina poplar.
Fourteenth street west	do	do	Soft maple.
Do	Pennsylvania avenue	Boundary street	Do.
Fifteenth street west	New York avenue	K street north	American elm.
Do	K street north	Boundary street north	Box elder.
Sixteenth street west	H street north	do	Tulip poplar (only in parking).
Sixteenth-and-a-half street west.	Pennsylvania avenue	H street north	Gincho.
Seventeenth street west	New York avenue	K street north	Soft maple.
Do	K street north	Massachusetts avenue	Norway maple.
Do	Massachusetts avenue	Q street north	Carolina poplar.
Do	S street north	T street north	Do.
Eighteenth street west.	New York avenue	P street north	Americ n linden.
Nineteenth street west	do	Boundary north	Soft maple.
Twentieth street west	do	do	American linden.
Twenty-first street west	E street north	Q street north	Soft maple.
Twenty-second street west.	do	M street north	Do.
Twenty-third street west.	do	Pennsylvania avenue	American linden.
Do	Pennsylvania avenue	M street north	American elm.
Twenty-fourth street west.	Virginia avenue	N street north	Soft maple.
Twenty-fifth street west	K street north	Pennsylvania avenue	Kentucky coffee.
Twenty-sixth street west.	E street north	M street north	Carolina poplar.
Twenty-seventh street west.	K street north	L street north	Soft maple.
A street south	First street east	Eighth street east	Do.
B street south	Sixth street east	Pennsylvania avenue	Box elder.
Do	Pennsylvania avenue	New Jersey avenue	Soft maple.

TABLE H.—*Varieties of trees planted by the parking commission, &c.*—Continued.

WASHINGTON—Continued.

Where planted.			Variety of tree.
Street.	From—	To—	
B street south	First street west	Maryland avenue	American elm.
Do	Sixth street west	Fourteenth street west.	American linden.
C street south	South Capitol street	Fourth street east	Soft maple.
Do	Pennsylvania avenue	Sixth street east	Box elder (north side).
Do	do	do	Norway maple (south side).
Do	Sixth street east	Seventh street east	Scarlet maple.
Do	Seventh street west	Fourteenth street west	Buttonwood.
D street south	Second street east	Seventh street east	American linden.
Do	do	South Capitol street	Carolina poplar.
Do	Four-and-a-half street west.	Fourteenth street west.	Do.
F street south	do	Water street	Soft maple.
G street south	do	do	Box elder.
M street south	Fourth street east	Four-and-a-half street west.	Buttonwood.
N street south	do	Sixth street west	Soft maple.
A street north	do	First street east	Do.
Do	Sixth street east	Seventh street east	Soft maple (north side).
Do	Seventh street east	Eighth street east	Soft maple (south side).
B street north	Eleventh street east	Maryland avenue	Box elder.
Do	Maryland avenue east	Third street east	American elm.
Do	Fourteenth street west	Seventeenth street west	Carolina poplar.
C street north	Maryland avenue east	New Jersey avenue east	Soft maple.
Do	First street west	New Jersey avenue	American elm.
Do	do	do	Tulip poplar (in parking, south side).
Do	Second street west	Four-and-a-half street west.	Soft maple.
Do	Ninth street west	Thirteenth-and-a-half street west.	Honey locust.
Do	Thirteenth-and-a-half street west.	Fifteenth street west	Carolina poplar.
D street north	First street east	Second street east	Box elder.
Do	Third street east	Fourth street east	Box elder (north side).
Do	New Jersey avenue	Fourth street west	Do.
E street north	Maryland avenue	First street east	Soft maple.
Do	New Jersey avenue	Fourth street west	Do.
Do	Fifth street west	Thirteenth street west.	Do.
Do	Seventeenth street west.	Twenty-third street west.	Do.
F street north	Maryland avenue east	Fourth street west	Norway maple.
Do	Fifth street west	Seventh street west	Soft maple.
Do	Seventeenth street west.	Virginia avenue west	Sugar, Norway, and Scarlet maples.
G street north	Maryland avenue	Seventh street east	American ash.
Do	New Jersey avenue	Sixth street west	Buttonwood.
Do	Seventh street west	Eight street west	American elm (north side).
Do	Ninth street west	Fifteenth street west	European linden.
Do	Seventeenth street west.	Twenty-sixth street west.	Soft maple.
street north	Maryland avenue east	Fourth street west	Do.
Do	Seventh street west	New York avenue	Do.
Do	Thirteenth street west	Fifteenth street north	Box elder.
Do	Seventeenth street west.	Twenty-seventh street west.	Do.
street north	Seventh street east	Boundary east	Carolina poplar.
Do	North Capitol street	Third street west	Do.
Do	Fifth street west	Eighth street west	Do
Do	Ninth street west	Tenth street west	Do.
Do	New York avenue	Thirteenth street west	Sycamore maple.
Do	Fourteenth street west	Fifteenth street west	Soft maple.
Do	Vermont avenue	Sixteenth street west	Sycamore maple.
Do	Eighteenth street west	Pennsylvania avenue west.	Do.
Do	Twentieth street west	Twenty-seventh street west.	Carolina poplar.
K street north	Seventh street east	Seventh street west	Soft maple (on curb line).
Do	do	do	Catalpa (in parking).
Do	Ninth street west	Twenty-eighth street west.	Soft maple (on curb line).
Do	do	Thirteenth street west	Tulip poplar (in parking).
Do	Fourteenth street west.	Twenty-third street west.	Sugar maple (in parking).
Do	Twenty-fourth street west.	Twenty-eighth street west.	Catalpa (in parking).

TABLE H.—*Varieties of trees planted by the parking commission, &c.*—Continued.

WASHINGTON—Continued.

Where planted.			Variety of tree.
Street.	From—	To—	
L street north	Fifth street east	Sixth street east	Box elder.
Do	Second street west	Fifth street west	Do.
Do	Fifth street west	Eleventh street west	Scarlet maple.
Do	Tenth street west	Twenty-seventh street west.	Box elder.
M street north	Boundary east	First street east	Soft maple.
Do	Third street west	Fourth street west	Do.
Do	Sixth street west	Twenty-sixth street west.	Do.
N street north	First street west	Twenty-first street west.	Box elder.
O street north	Fourth street west	Fifth street west	Soft maple.
Do	Seventh street west	Thirteenth street west.	Do.
Do	Fifteenth street west	Seventeenth street west	Carolina poplar.
P street north	Seventh street west	Nineteenth street west.	Box elder.
Do	Nineteenth street west	Twenty-second street west.	Soft maple.
Q street north	First street west	Third street west	Soft maple (north side).
Do	Third street west	Fourth street west	Soft maple (south side).
Do	New Jersey avenue.	Seventeenth street west	Soft maple.
Do	Twenty-first street west.	Twenty-second street west.	Do.
Do	do	do	Scarlet maple (in parking; south side).
R street north	Fourth street west	Sixteenth street west	American linden.
Do	Nineteenth street west	Twentieth street west.	Do.
S street north	Boundary north	Sixteenth street west	Box elder.
Do	Seventeenth street west	New Hampshire avenue	Do.
T street north	Vermont avenue	Boundary	Carolina poplar.
V street north	Thirteenth street west	Fourteenth street west.	Soft maple.
W street north	Twelfth street west	Thirteenth street west.	Honey locust.
Do	do	do	Tulip poplar (in parking).
Do	Thirteenth street west	Fourteenth street west	Honey locust (north side).
Massachusetts avenue.	Boundary northwest	Eleventh street northeast.	American linden.
New Hampshire avenue	Twenty-sixth street west	Pennsylvania avenue	Carolina poplar.
Do	Pennsylvania avenue	Sixteenth street west	American elm.
Rhode Island avenue	Connecticut avenue	Thirteenth street west	Tulip poplar.
Do	Thirteenth street west	Boundary	American elm.
Connecticut avenue	K street north	do	Soft maple.
Vermont avenue	do	M street north	Mixed.
Do	M street north	Q street north	Soft maple.
Pennsylvania avenue	First street west	Twenty-seventh street west.	Mixed.
Do	First street east	Second street east	American elm.
Do	Second street east	Thirteenth street east	Soft maple (on curb line).
Do	do	Eleventh street east	Catalpa (in parking).
New York avenue	Seventeenth street west	Eighteenth street west	Sugar maple (in parking, north side).
Do	Nineteenth street west	Twentieth street west	American elm (on curb line, north side).
Do	Fourteenth street west	Ninth street west	Soft maple (on curb line).
Do	do	do	Carolina poplar and elm (in parking).
Do	Seventh street west	North Capitol street	American elm.
Viginia avenue	Eighteenth street west	G street north	Carolina poplar.
Do	Third street east	Sixth street east	Buttonwood.
Ohio avenue	Thirteenth-and-a-half street west.	Fifteenth street west	American elm.
Louisiana avenue	Pennsylvania avenue	Ninth street west	Do.
Maryland avenue	Fourteenth street west	do	Soft maple.
Do	Sixth street west	First street west	Do.
Do	First street east	Boundary east	Do.
New Jersey avenue	M street south	I street south	American elm.
Do	I street south	B street south	Do.
Do	B street north	O street north	Do.
Do	Q street north	R street north	American elm (east side).
Delaware avenue	B street north	E street north	American elm.
North Carolina avenue.	Third street east	Sixth street east	Do.
Do	Second street east	New Jersey avenue	Carolina poplar.
South Carolina avenue	Sixth street east	Pennsylvania avenue	Do.
Maine avenue	Third street west	Sixth street west	American elm.
Missouri avenue	do	do	Do.
East Capitol street	First street east	Eleventh street east	Carolina poplar and American elms (planted alternate).
Do	do	do	
Riggs street	Thirteenth street west	Fourteenth street west.	Tulip poplar.
Corcoran street	do	Sixteenth street west	Soft maple.

TABLE H.—*Varieties of trees planted by the parking commission, &c.*—Continued.

WASHINGTON—Continued.

Where planted.			Variety of tree.
Street.	From—	To—	
Pierce street north	Fourteenth street west .	Fifteenth street west ..	Gincho.
Do.....	Fifteenth street west ...	Sixteenth street west ..	Gincho (half square, south side).
Caroline street north ..	.....do	.....do	Sycamore maple.
Columbia street north .	O street north	Q street north	American ash.
South Capitol street ...	N street south	G street south	Tulip poplar.
Do.....	G street south	Canal street	Kentucky coffee (in reservation).
Do.....	.....do	.....do	Carolina poplar (on curb line).
Do.....	.....do	.....do	Tulip poplar (in parking).
Do.....	Canal street	B street south	Tulip poplar (on curb line.)
De Salles street.....	Connecticut avenue.....	Seventeenth street west	Horse chestnut.

GEORGETOWN.

Montgomery street	Aqueduct street	West street.....	Soft maple.
Green street	Water street.....	..... do	Do.
Washington street.....	..... do	Gay street	American linden.
Do.....	West street.....	Stoddard street	Soft maple.
Jefferson street.....	Water street.....	Bridge street	Carolina poplar.
Congress street.....	Gay street	West street.....	Soft maple.
High street	Beall street	Road street	American ash.
Market street.....	Second street	Third street.....	Box elder.
Bridge street	Rock Creek.....	Washington street....	Soft maple.
Olive street.....	Montgomery street	.....do	American ash.
Prospect street.....	High street	Market street.....	American linden.
Potomac street.....	Bridge street	Second street	Carolina poplar.
First street	Fayette street	High street	Soft maple.
Second street	.....do	.....do	Box elder.
Fourth street.....	High street	Market street.....	Soft maple.
Gay street	.....do	Monroe street	Norway maple.
Dunbarton street	.....do	Washington street.....	Soft maple.
Do	Green street	Monroe street.....	Do.
Beall street	High street	.....do	Box elder.
West street.....	.....do	Montgomery street	Sugar maple.
Do.....	Montgomery street	Rock Creek.....	Soft maple.
Stoddard street.....	Congress street	Washington street.....	American elm.
Road street	High street	Bernard lane.....	Norway maple.

Old mixed trees of different varieties in the streets of Washington and Georgetown, D. C.

WASHINGTON.

H street north	Fifteenth-and-a-half street west.	Seventeenth street west	Elm, aspen poplar, sugar maple.
Connecticut avenue....	H street north	I street north.....	Soft maple, aspen poplar, horse chestnut (in parking).
I street north.....	Sixteenth street west ...	Eighteenth street west.	Soft maple, European linden, aspen poplar.
Fifteenth-and-a-half street west.	Pennsylvania avenue ...	H street north	Buttonwood, soft maple, Carolina poplar, aspen poplar, on east side (in pavement.)
E street north	Thirteenth street west..	Fourteenth street west.	Aspen poplar (in pavement).
D street north	Fourteenth street west..	Fifteenth street west ..	Aspen poplar.
Fourteenth street west	Pennsylvania avenue ...	Ohio avenue	Soft maple, aspen poplar, buttonwood.
Do.....	B street north	B street south	Soft maple, aspen poplar.
Twelfth street west....	.....do	.....do	Do.
Seventh street west....	.....do	.....do	Do.
E street north	Twelfth street west.....	Eleventh street east ...	Soft maple and aspen poplar (scattering).
H street south	.....do	.....do	Aspen poplar (scattering).
Third street west	B street south	H street south	Do.
Four-and-a-half street west.	Pennsylvania avenue ...	Indiana avenue	Soft maple, buttonwood, alianthus.

Old mixed trees of different varieties, &c.—Continued.

WASHINGTON—Continued.

Where planted.			Variety of tree.
Street.	From—	To—	
C street north	Four-and-a-half street west.	Seventh street west	Soft maple, buttonwood, (4 trees).
Indiana avenue	do	First street west	Soft maple, aspen poplar.
I street north	Second street west	Fifth street west	Elm, Carolina poplar, tulip poplar, aspen poplar.
Eighth street east	A street south	Pennsylvania avenue	Aspen poplar, soft maple, at Wallach school.
Do	D street south	M street south	Aspen poplar, soft maple, buttonwood.
Eleventh street east	Pennsylvania avenue	Bridge	Soft maple, aspen poplar, (scattering).
Pennsylvania avenue	First street west	Third street west	Soft maple, elm, aspen poplar.
Do	Third street west	Four-and-a-half street west.	Soft maple, buttonwood ailanthus, aspen poplar
Do	Four-and-a-half street west.	Sixth street west	Soft maple, elm, button wood, European linden, aspen poplar.
Do	Sixth street west	Ninth street west	Do.
Do	Ninth street west	Twelfth street west	Elm, buttonwood, European linden, aspen poplar.
Do	Twelfth street west	Fifteenth street west	Aspen poplar, ailanthus, soft maple, European linden.
Do	Fifteenth street west	Seventeenth street west	Elm, ash, Eurepoan maple, buttonwood, aspen poplar.
Do	Seventeenth street west	Twentieth street west	Aspen poplar, soft maple.
Do	Twentieth street west	Twenty-fourth street west.	European maple, soft maple, aspen poplar.
Do	Twenty-fourth street west.	Twenty-seventh street west.	Soft maple.

GEORGETOWN.

Aqueduct street	Rock Creek	Bridge street	Buttonwood.
Congress street	Water street	Gay street	Aspen poplar, soft maple.
Frederick street	Bridge street	Third street	Aspen poplar, soft maple, and locust.
Do	Third street	High street	Honey locust, soft maple.
Fayette street	First street	do	Soft maple, aspen poplar, buttonwood.
Market street	Bridge street	Sixth street	Soft maple, aspen poplar,
Washington street	Gay street	Stoddard street	Soft maple, locust, horse chestnut.
Greene street	West street	do	Soft maple, sugar maple.
High street	Broad street	County line	Sugar maple, aspen poplar.
Seventh street west	Upper end		Aspen poplar (scattering).

T.—REPORT OF THE SUPERINTENDENT OF PROPERTY.

OFFICE OF SUPERINTENDENT PROPERTY,
DISTRICT OF COLUMBIA,
Washington, September 29, 1880.

GENTLEMEN: I have the honor to transmit herewith the report of Superintendent of Property for the fiscal year ending June 30, 1880.

Very respectfully,

JOHN B. CLARK,
Superintendent of Property.

The HON. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

CLASS 1.—*Stationery.*

Total amount purchased, as per invoices and vouchers	$9,274 64
Issued as follows to—	
Commissioners' department	656 87
Engineer department	1,860 46
Water registrar	625 38
Auditor and comptroller	136 90
Treasurer and assessor	487 32
Collector's office	331 20
Attorney's office	69 99
Coroner's office	121 78
Public schools	3,321 28
Fire department	97 54
Police court	230 41
Washington Asylum	87 80
Metropolitan police	684 46
Health office	485 25
Register of wills	78 00
	9,274 64

CLASS 2.—*Blank forms and printing.*

Total amount purchased, as per invoices and vouchers	8,830 85
Issued as follows to—	
Commissioners' department	1,823 06
Engineer department	461 31
Water registrar	449 74
Auditor and comptroller	149 25
Treasurer and assessor	387 50
Collector's office	2,633 23
Attorney's office	118 44
Public schools	1,696 93
Fire department	71 38
Police court	45 83
Washington Asylum	5 48
Health office	751 92
Metropolitan police	222 28
Coroner's office	14 50
	8,830 85

CLASS 3.—*School books.*

Total amount purchased, as per invoices and vouchers	5,667 26
Issued as follows to—	
Public schools	5,660 26
Treasurer and assessor	7 00
	5,667 26

CLASS 4.—*Furniture.*

Total amount purchased, as per invoices and vouchers	$8,570 26
Issued as follows to—	
Commissioners' department	460 91
Engineer department	79 17
Water registrar	10 58
Auditor and comptroller	62
Treasurer and assessor	10 07
Collector's office	40 67
Public schools	5,713 05
Fire department	983 07
Police court	80 40
Washington Asylum	488 37
Metropolitan police	624 06
Health office	57 29
Fire-alarm telegraph	4 00
Georgetown almshouse	18 00
	8,570 26

CLASS 5.—*Hardware.*

Total amount purchased, as per invoices and vouchers	$4,346 63
Issued as follows to—	
Commissioners' department	60 63
Engineer department	879 49
Water registrar	140 80
Public schools	1,055 85
Fire department	597 74
Police court	9 30
Washington Asylum	786 92
Metropolitan police	244 81
Health office	11 06
Parking commission	303 93
Georgetown almshouse	23 50
Fire-alarm telegraph	232 60
	4,346 63

CLASS 6.—*Stoves, tinware, and heating apparatus.*

Total amount purchased, as per invoices and vouchers	$3,205 78
Issued as follows to—	
Commissioners' department	152 45
Engineer department	675 93
Water registrar	63 09
Public schools	1,260 52
Fire department	126 90
Police court	198 15
Washington Asylum	626 16
Metropolitan police	66 48
Health office	36 10
	3,205 78

CLASS 7.—*Plumber's supplies, iron pipe and castings.*

Total amount purchased, as per invoices and vouchers	$15,126 3
Issued as follows to—	
Commissioners' department	50 57
Engineer department	314 02
Water registrar	13,925 85
Public schools	413 37
Fire department	157 88
Washington Asylum	20 62
Metropolitan police	15 37

Health office	$17 32
Fire-alarm telegraph	211 36
	15,126 36

CLASS 8.—*Groceries and provisions.*

Total amount purchased, as per invoices and vouchers	$10,386 56
Issued as follows to—	
Commissioners' department	50 53
Engineer department	64 88
Water registrar	83
Public schools	40 54
Fire department	43 68
Police court	3 00
Washington Asylum	9,818 13
Metropolitan police	116 03
Health office	4 26
Georgetown almshouse	244 68
	10,386 56

CLASS 9.—*Dry goods, clothing, and notions.*

Total amount purchased, as per invoices and vouchers	$2,652 15
Issued as follows to—	
Commissioners' department	19 05
Public schools	66 89
Fire department	173 14
Washington Asylum	2,278 91
Metropolitan police	46 66
Health office	6 90
Fire-alarm telegraph	5 66
Georgetown almshouse	54 94
	2,652 15

CLASS 10.—*Boots and shoes.*

Total amount purchased, as per invoices and vouchers	$1,329 10
Issued as follows to—	
Commissioners' department	5 30
Engineer department	101 90
Washington Asylum	1,221 90
	1,329 10

CLASS 11.—*Saddlery.*

Total amount purchased, as per invoices and vouchers	$9,152 07
Issued as follows to—	
Commissioners' department	$229 07
Engineer department	107 95
Water registrar	157 24
Fire department	1,693 95
Police court	3 90
Washington Asylum	143 83
Metropolitan police	45 05
Health office	35 43
Parking commission	437 15
Fabric fire-hose and couplings, fire department	6,298 50
	9,152 07

CLASSES 12 AND 13.—*Drugs, chemicals, and paints.*

Total amount purchased, as per invoices and vouchers	$4,962 61
Issued as follows to—	
Commissioners' department	200 30
Engineer department	873 62

Water registrar	$475 98
Fire-alarm telegraph	658 68
Metropolitan police	78 03
Public schools	242 62
Fire department	537 01
Police court	6 65
Washington Asylum	1,847 86
Health office	41 86
	4,962 61

CLASS 14.—*Lumber and building material.*

Total amount purchased, as per invoices and vouchers	$8,767 28
Issued as follows to—	
Commissioners' department	73 71
Engineer department	1,466 76
Water registrar	195 85
Public schools	2,252 03
Fire department	199 91
Washington Asylum	1,306 42
Metropolitan police	4 45
Health office	3 40
Fire-alarm telegraph	174 00
Tree boxes and tree stakes, parking commission	3,090 75
	8,767 28

CLASS 15.—*Forage.*

Total amount purchased, as per invoices and vouchers	$8,026 16
Issued as follows to—	
Commissioners' department	658 55
Engineer department	542 64
Water registrar	304 79
Treasurer and assessor	19 14
Metropolitan police	307 76
Fire department	4,059 83
Washington Asylum	1,702 40
Parking commission	20 35
Health office	410 70
	8,026 16

CLASS 16.—*Fresh and salt meats.*

Total amount purchased, as per invoices and vouchers	$3,836 58
Issued as follows to—	
Washington Asylum	3,799 58
Georgetown almshouse	37 00
	3,836 58

CLASS 17.—*Ice.*

Total amount purchased, as per invoices and vouchers	$425 92
Issued as follows to—	
Commissioners' department	147 44
Engineer department	7 17
Attorney's department	3 46
Public schools	11 15
Fire department	64 49
Police court	27 62
Washington Asylum	29 41
Metropolitan police	129 92
Fire-alarm telegraph	5 26
	425 92

CLASS 18.—*Street lamps, lamp-posts, and castings.*

Total amount purchased, as per invoices and vouchers	$2,487 67
Issued as follows to—	
Engineer department, for avenues, streets, and alleys	1,560 43
Engineer department, for permit work	236 90
Public schools	690 34
	2,487 67

CLASS 19.—*Fuel.*

Total amount purchased, as per invoices and vouchers	$17,158 44
Issued as follows to—	
Commissioners' department	452 91
Engineer department	50 87
Water registrar	5,538 00
Parking commission	8 30
Attorney's office	21 82
Fire department	868 00
Police court	138 65
Metropolitan police	905 48
Washington Asylum	1,656 50
Health office	137 05
Public schools	7,380 86
	17,158 44

CLASS 20.—*Construction material.*

Amount on hand per last report, July 1, 1879	$33,818 53
Amount purchased to June 30, 1880	61,833 52
Total to be accounted for	95,652 05
Issued as follows:	
Engineer department, for improvement of avenues, streets, and alleys	52,877 66
Engineer department, permit work	15,971 43
Water department	8 39
Police department	1 24
Health department	134 20
Parking commission	4 45
Public schools	12 86
Fire department	12 56
Police court	1 78
Washington Asylum	121 82
Balance remaining on hand	26,505 66
Total to be accounted for	95,652 05

CLASS 21.—*Miscellaneous supplies, expenses, and repairs.*

Commissioners' department:	
For livery	$531 07
For carpentering and repairs	273 51
For labor	277 50
For drayage	36 50
For gas-fixtures	48 45
For repairing stoves	147 82
For whitewashing	14 00
For bookbinding	93 37
For plumbing	69 33
For repairs to vehicles	131 85
For rent of telephone instruments	224 71
For washing towels	174 48
For blacksmithing	52 63
For patent blotter baths	7 50
For cleaning carpets	22 64
For repairing clocks	39 70
For papering	28 50

For American flag	$26 00	
For pasturage	15 00	
For one sorrel horse	200 00	
For seal	5 00	
For office stamps	19 50	
For putting up and repairing awnings	34 20	
For post-mortem case	40 40	
For painting	9 75	
For hire of tug-boat	15 00	
For recaning chairs	3 50	
For miscellaneous items	60 40	
		2,602 31

Water registrar:

For blacksmithing, &c	6 00	
For sharpening, steeling, and repairing tools	93 77	
For platform scale (Fairbanks)	67 00	
For repairs to steam roller	145 91	
For material for pump engine	154 35	
For repairing machinery	173 32	
For timber for pumps	83 40	
For repairing to vehicles	48 50	
For miscellaneous	8 00	
		780 25

Engineer:

For livery	665 50	
For putting up new awnings	8 40	
For hand stamps	26 25	
For onebay horse	225 00	
For pasturage	10 40	
For papering	1 50	
For patent blotter baths	16 50	
For blacksmithing	101 52	
For repairs to vehicles	396 65	
For plumbing	28 50	
For bookbinding	187 50	
For whitewashing	12 50	
For repairing stoves	45 77	
For gasburners	21 00	
For drayage	13 40	
For repairs to hose	22 00	
For repairing steel tapes	20 40	
For making tablets	16 24	
For photolithographing	60 00	
For making and repairing torches	31 00	
For rent of property yard	300 00	
For repairing instruments	43 00	
For patent tin file holders	31 80	
For twisted link chain	18 90	
For leather tag indexes	12 00	
For hauling brick from Massachusetts avenue	33 16	
For repairing, mounting, and varnishing maps	29 00	
For leveling rod	18 00	
For level	12 00	
For repairing street lamps	231 93	
For plows	36 12	
For redressing, rejointing, and refitting curbstone	606 42	
For repairing steam roller	13 50	
For wharfage	2 80	
For miscellaneous items	65 99	
		3,364 65

Public schools:

For setting school furniture	269 02	
For papering	5 00	
For picture frames	5 25	
For rent of telephone instruments	76 42	
For surveying instruments	38 50	
For carpenter work and repairs	6 00	
For photolithographing	195 00	

For bookbinding	$17 75	
For repairing clocks	3 50	
For rubber stamp	3 00	
For sweeping and cleaning chimney	2 00	
For Blatchley pump with copper chamber	28 00	
For repairing stoves and furnaces	1,076 57	
For one new furnace, complete	194 50	
For freight on school furniture	84 67	
For drayage on school furniture	47 50	
		$2,052 68
Fire department:		
For repairs to apparatus	1,639 15	
For rent of building for use of No. 2	45 00	
For plumbing	50 73	
For veterinary surgeon	249 84	
For pasture	41 33	
For repairs to engine heaters	66 78	
For putting up electrical connections	134 00	
For plastering	27 00	
For carpenter work and repairs	34 66	
For blacksmithing	1 50	
For repairing stoves and furnaces	64 58	
For repairs to vehicles	74 95	
For painting and calcimining	30 00	
For making brass nozzles	24 00	
For automatic relief valve	240 50	
For steam-gauge	42 50	
For cleaning carpets	28 68	
For hauling ashes, &c	36 50	
For repairing clocks	5 00	
For drayage	2 00	
For repairs to engine-houses	148 90	
For gas-fittings	233 80	
For laying artificial stone	23 50	
For whitewashing	18 12	
For miscellaneous	35 45	
		3,298 47
Police court:		
For putting and repairing awnings	10 50	
For carpentering and repairs	91 20	
For plumbing	8 50	
For drayage	3 75	
For hauling ashes	4 25	
For furnace governor	25 00	
For locksmithing	4 00	
For repairs to van	29 40	
For blacksmithing	42 25	
For whitewashing	9 38	
For miscellaneous	3 25	
		231 48
Metropolitan police:		
For blacksmithing	123 70	
For gas governors	40 00	
For drayage	1 25	
For repairing station van	87 50	
For rent of telephone instruments	147 54	
For gas-fittings	42 45	
For plumbing	102 82	
For hauling ashes	25	
For repairing clocks	4 00	
For repairs to ambulance	42 00	
For repairing stoves, &c	72 10	
For police belts and frames	309 25	
For nickel-plated lanterns	36 00	
For recaning chairs	12 50	
For carpenter work and repairs	76 31	
		1,097 67

Washington Asylum:

For one second-hand wagon	$110 00	
For organ	60 00	
For china, glass, and crockery ware	165 53	
For repairs to stoves and furnace	351 06	
For gong bells	15 00	
For garden seed	178 53	
For plastering	72 25	
For Berkshire boar	20 00	
For drayage	12 10	
For painting and calcimining	125 00	
For cleaning carpet	9 51	
For pasturing	7 00	
For plumbing	109 53	
For coopering	27 00	
For repairs to clocks	2 00	
For papering	5 75	
For putting up large new awnings	20 00	
For blacksmithing	13 25	
For repairs to vehicles	132 20	
For marble slab	10 00	
For one horse	130 00	
For miscellaneous	4 83	
For building addition to dispensary	184 25	
For sand	22 25	
		$1,787 04

Treasurer and assessor:

For bookbinding	355 00	
For carpenter work and repairs	11 00	
For indexing tags	4 00	
For mounting and varnishing maps	1 00	
For repairing vehicles	6 37	
For blacksmithing	2 63	
For picture-frames	1 75	
		381 75

Parking commission:

For coopering	17 50	
For sharpening and steeling tools	56 50	
For repairing vehicle	12 85	
For one new wagon	156 00	
For blacksmithing	10 50	
For miscellaneous tools	13 85	
For miscellaneous	13 50	
		280 70

Fire-alarm telegraph:

For stand for sticking machine	4 50	
For rent of telephone instruments	17 73	
For plumbing	23 00	
		45 23

Collector:

For dog tags	491 12	
		491 12

Health office:

For repairing clocks	5 00	
For student lamp	8 00	
For rent of telephone instrument	14 25	
For repairs to vehicle	136 64	
For repairing stoves	12 71	
For papering	10 00	
For recaning chairs	3 00	
For leather index tags	1 50	
For blacksmithing	82 13	
For coopering	10 00	
For plumbing	21 26	
For patent blotter baths	3 00	
For cartridges	12 00	
For tablets made to order	5 72	

For bookbinding	$10 00	
For carpenter work and repairs	12 50	
For miscellaneous	11 75	
		$359 46
Total for miscellaneous supplies, expenses, and repairs		16,772 81
Total for the year ending June 30, 1880		236,631 18

JOHN B. CLARK,
Superintendent of Property.

OFFICE OF SUPERINTENDENT OF PROPERTY,
DISTRICT OF COLUMBIA,
Washington, September 14, 1880.

GENTLEMEN: In accordance with your instructions I have the honor to transmit herewith an estimate for salaries of employés of the division of property for the fiscal year ending June 30, 1882. In this connection I desire to renew and direct your attention to the recommendation on this subject contained in the last annual report of my predecessor, in these words: "I respectfully and urgently recommend that a more liberal provision be made for the employés of this office." I further recommend, first, that the office of inspector of fuel be abolished, and that the present incumbent be made a clerk, at a compensation of $1,200 per annum; secondly, that the office of one night watchman for Morrison building be also abolished, thereby making the estimate as follows:

Superintendent of property	per annum	$2,160 00
Chief clerk	per annum	1,600 00
Issuing clerk	per annum	960 00
Clerk	per annum	1,200 00
Watchman	per annum	720 00
Watchman	per day	1 50
Watchman	per day	1 50
Messenger	per annum	600 00
Messenger	per annum	480 00
4 laborers	each per annum	480 00
Janitor	per annum	720 00
Watchman	per annum	600 00
Rent of property yard		300 00

Making a total of $12,355 for the division of property for the fiscal year ending June 30, 1882.

Very respectfully,

JOHN B. CLARK,
Superintendent of Property.

The Hon. COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

U.—TABLE OF THE POPULATION OF THE DISTRICT OF COLUMBIA.

Population of the District of Columbia according to the tenth census, 1880.

	Males.	Females.	Native.	Foreign.	White.	Colored.	Total.	Chinese.	Japanese.	Indians.
Washington	68,320	78,987	133,070	14,237	99,128	48,179	147,307	13	4	5
Georgetown	5,854	6,724	11,768	810	8,819	3,759	12,578	.....	1	.....
Remainder of District	9,420	8,333	15,689	2,064	10,289	7,464	17,753	.....	.....	1
Total	83,594	94,044	160,527	17,111	118,236	59,402	177,638	13	5	6

NOTE.—The Chinese, Japanese, and Indians are also included under the heading "colored."

V.—REPORT OF THE INSPECTOR OF GAS AND METERS.

ILLUMINATING POWER AND PURITY.

The illuminating power and purity of the gas supplied by the Washington Gas-Light Company from July 1, 1879, to June 30, 1880, are as follows:

Average illuminating power during the year	candles..	16.88
Highest illuminating power during the year	candles..	19.46
Lowest illuminating power during the year	candles..	12.39
Average quantity of ammonia in 100 cubic feet during the year	grains..	1.43
Highest quantity of ammonia in 100 cubic feet during the year	grains..	5.01
Lowest quantity of ammonia in 100 cubic feet during the year	grains..	.20
Average quantity of sulphur in 100 cubic feet during the year	grains..	10.76
Highest quantity of sulphur in 100 cubic feet during the year	grains..	26.03
Lowest quantity of sulphur in 100 cubic feet during the year	grains..	4.11

On various occasions during last fall the light obtained from the gas was dull and poor-looking, particularly in low sections of the city.

According to the instruments used for determining the illuminating power and pressure of the gas in this office the cause of these depressions was not owing in very many instances to a poor quality of gas, but was to a considerable extent produced by deficient pressure, and the presence of naphthaline in the service pipes. The latter is a great nuisance, and baffles the skill and ingenuity of the most competent gas engineers to prevent its formation. Napthaline is a hydrocarbon which condenses from the gas in its passage through the mains; crystallizing, it chokes up the services, and in some localities prevents entirely the flow of gas. The cause for deficient light and low pressure in a number of instances can be attributed to the existence of this compound in the gas.

On seventeen occasions during the year the gas supplied by this company was of less illuminating power than sixteen candles, as follows: July 15, 15.53 candles; July 16, 12.39 candles; September 4, 15.82 candles; September 6, 15.75 candles; September 12, 15.01 candles; September 17, 15.85 candles; October 10, 15.30 candles; October 11, 15.88 candles; October 15, 15.57 candles; November 10, 15.86 candles; November 11, 15.95 candles; November 13, 15.86 candles; November 17, 15.78 candles; November 18, 15.76 candles; November 26, 15.59 candles; December 5, 15.81 candles; January 7, 15.97 candles.

It will be observed that on one occasion the gas was below fifteen candles. The depression was caused by the admission of air in the crown of the gasometer while being repaired.

On six occasions the gas of this company contained a slight excess of sulphur over the 20 grains allowed in each 100 cubic feet: September 30, 21.09 grains; October 1, 20.27 grains; October 7, 20.16 grains; October 8, 26.03 grains; October 9, 20.82 grains; January 19, 21.09 grains.

The illuminating power and purity of the gas supplied by the Georgetown Gas-Light Company from July 1, 1879, to June 30, 1880, is as follows:

Average illuminating power during the year	candles..	16.84
Highest illuminating power during the year	do....	19.27
Lowest illuminating power during the year	do....	13.89
Average quantity of ammonia in 100 cubic feet during the year	grains..	1.96
Highest quantity of ammonia in 100 cubic feet during the year	do....	12.85
Lowest quantity of ammonia in 100 cubic feet during the year	do....	27
Average quantity of sulphur in 100 cubic feet during the year	do....	10.78
Highest quantity of sulphur in 100 cubic feet during the year	do....	17.67
Lowest quantity of sulphur in 100 cubic feet during the year	do....	1.37

On twenty five occasions during the year the gas supplied by this company was of less illuminating power than sixteen candles—as fol-

lows: July 9, 15.94 candles; July 14, 15.58 candles; August 22, 15.06 candles; September 1, 15.12 candles; September 8, 15.80 candles; September 11, 15.94 candles; October 6, 15.27 candles; October 9, 15.42 candles; October 31, 15.79 candles; November 6, 15.96 candles; November 8, 15.55 candles; November 10, 15.61 candles; November 11, 15.78 candles; November 13, 15.36 candles; December 24, 13.89 candles; December 27, 15.81 candles; January 31, 15.95 candles; February 5, 14.69 candles; March 27, 15.95 candles; March 30, 14.56 candles; May 19, 15.50 candles; May 27, 15.52 candles; June 11, 15.82 candles; June 12, 15.72 candles; June 14, 15.75 candles. On three evenings, namely, December 24, February 5, and March 30, the power was less than fifteen candles.

From June 27 to August 9, inclusive, the gas supplied by this company contained a larger per cent. of ammonia than allowed, the excess being from two to seven grains each day over the lawful quantity (five grains in each 100 cubic feet): this excess of ammonia could not have been prevented by ordinary care and prudence, but was occasioned by some unavoidable cause.

GAS BURNERS.

The burner required by law to be used in determining the illuminating power of the gas in this District is generally known as the Sugg-Letheby, or Old Parliamentary Argand Burner, having 15 holes and a 7-inch chimney, consuming 5 cubic feet per hour, and the luminosity derived from this stated consumption must equal in intensity the light emitted by sixteen sperm candles, each burning at the rate of 120 grains per hour.

During the months of January, February, and March last, a series of tests were made with burners ordinarily used in general illumination. The object in view in making the experiments was, to ascertain whether the burners used by consumers furnished the same luminosity for equal consumption of gas as the standard Argand described above. Tests were made also with London Argands, manufactured by William Sugg, of Westminster, and the Silber burner, made by Silber Light Company, London.

Description of burner.	Number of tests.	Pressure at point of ignition.	Actual consumption of gas per hour.	Illuminating power in candles at rate of actual consumption.	Illuminating power in candles at the rate of 5 feet per hour.	Value of one foot of gas, in candles.
		Inch.	*Feet.*	*Candles.*	*Candles.*	*Candles.*
Brass burner, fish-tail, 3-foot	* 1	.6	2.31	4.79	10.35	2.07
Brass burner, fish-tail, 4-foot	* 2	.60	2.95	7.99	13.54	2.70
Brass burner, fish-tail, 5-foot	* 3	.60	4.05	13.17	16.25	3.25
Lava-tip burner, bat-wing, 2-foot	† 4	.60	2.85	8.08	14.17	2.83
Lava-tip burner, bat-wing, 3-foot	† 5	.60	3.30	11.64	17.63	3.52
Lava-tip burner, bat-wing, 4-foot	† 6	.60	3.51	12.45	17.70	3.54
Lava-tip burner, bat-wing, 5-foot	† 7	.60	3.93	14.59	18.55	3.71
Sugg-Letheby Argand, 15 holes, 7-inch chimney	‡ 8	.05	5.00	17.17	17.17	3.43
Sugg's G Argand, 33 holes, 8-inch chimney	§ 9	.255	5.00	20.77	20.77	4.15
Ellis lava-tip bat-wing, 5-foot	‖10	.50	5.00	20.32	20.32	4.06
Sugg-Letheby Argand, 15 holes, 7-inch chimney	‡11	.05	5.00	17.63	17.63	3.52
Lava-tip burner, fish-tail, 6 foot	‖12	.60	5.00	18.87	18.87	3.77
Sugg's G Argand, 33 holes, 8-inch chimney	§13	.255	5.00	21.54	21.54	4.30
Empire lava-tip bat-wing, 5-foot	‖14	.40	4.13	16.52	20.00	4.00
Sugg's F Argand, 30 holes, 7-inch chimney	§15	.225	5.00	20.42	20.42	4.08
Sugg-Letheby Argand, 15 holes, 7-inch chimney	‡16	.05	5.00	17.70	17.70	3.54
Silber's Argand, 24 holes, 9-inch chimney	§17	.05	5.00	20.51	20.51	4.10
Sugg's E Argand, 27 holes, 7-inch chimney	§18	.255	5.00	21.02	21.02	4.20
Sugg-Letheby Argand, 15 holes, 7-inch chimney	‡19	.05	5.00	17.56	17.56	3.51

* Poor and extravagant. † Best where small flame is required. ‡ Standard Argand.
§ Excellent where a soft and steady light is needed; very economical.
‖ Good and economical for general use.

The foregoing tests very clearly demonstrate the great loss of light, and consequent waste, in consumption of gas, where burners with small openings are used, particularly where the tips are of metal and of the fish-tail form. Burners of this description, consuming from 2 to 4 cubic feet per hour, are very generally in use, with and without globes, and it is not at all surprising that complaint should be made of poor light where such conditions exist. Twenty to 40 per cent. of luminosity is not an uncommon loss, and in cases where globes or shades are used an additional loss of 25 to 40 per cent. in light is the result.

On the other hand, lava-tip burners with large openings, either bat-wing or fish-tail form, gave an illuminating power of 7 to 15 per cent. greater than the power obtained with the standard (Sugg-Letheby), and nearly equaled the light furnished by the improved London Argands. Flat-flame burners of this description are in every respect suitable and economical for all purposes of general illumination.

The great improvement in the construction of Argand burners is well proven by the results of tests with Sugg's London Argands and the Silber burners, they yielding 20 per cent. more light than the present standard, and for reading, drawing, or writing—in fact, for any purpose where a soft and steady light is needed, similar to that obtained with moderator oil-lamps—these burners will be found most excellent and all that could be desired.

INSPECTION OF METERS.

One thousand three hundred and nine meters were inspected and proved by this office during the fiscal year ending June 30, 1880, for the Washington and Georgetown Gas-Light Companies and for consumers of gas. Of this number, 36 registered fast, against the consumer, average error 5.41 per cent.; 89 registered slow, against the companies, average error 9.87 per cent. One thousand one hundred and sixty-seven registered within the limits required by law, namely, 2 per cent. either way, and were sealed and returned to the companies for service; 17 did not register, the gas flowing through them.

One hundred and eighty-three of the above mentioned meters were tested on complaint, as follows: Fifty-four were complained of by consumers of gas, 23 registered fast, average error 4.59 per cent.; 5 registered slow, average error 5.74 per cent.; and 26 registered within the limits allowed by law. One hundred and twenty-nine were complained of by the gas companies; 6 registered fast, average error 7.10 per cent.; 77 registered slow, average error 16.77 per cent.; 29 registered within the limits allowed; and 17 did not register. This is caused by the diaphragms, or partitions, which are made of leather, having perforations in them which allow gas to flow through the meters without working the gearing which is connected with the index; consequently no registration takes place.

A large proportion of the gas-meters now in use in this District are very accurate measurers, and the good results of inspection are demonstrated daily, as the average error of meters that have been once inspected and proved, and complained of again, either by the companies or consumers supposing them to be wrong, proves on reinspection to be much less than those meters which have never been inspected and proved by this office previously to being placed in service.

As there are meters still in use in this District that have not been inspected, proved, and sealed, and as probably not more than one in three are correct, I would respectfully recommend that the law be modified so as to require the Washington and Georgetown Gas-Light Com-

panies to replace meters of this description within a specified time by meters that have been inspected, proved, and sealed.

I would further recommend that the law be modified so as to require, when for any purpose whatever the heads of meters that have been inspected, proved, and sealed, are removed by the gas companies, meters of this description should be classed as repaired meters and brought to this office for reinspection before again being placed in service.

The seal of the inspector is the evidence that the meter has been properly tested and proven, as required by law. To admit the right of the companies to remove the head of a sealed meter, and rectify whatever is wrong, and return meter to service without reinspection and sealing, would be to render the law practically inoperative.

S. CALVERT FORD,
Inspector of Gas and Meters.

TABLE A.—*Illuminating power and purity of the gas supplied by the Washington Gas-Light Company from June* 30, 1879, *to June* 30, 1880.

Months.	*Number of observations.	Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Number of occasions that sulphuretted hydrogen was present during the year.
		Mean.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	
July	24	16.62	18.38	12.39	1.96	2.44	1.25	8.20	10.41	6.57	4
August	27	17.21	19.46	16.23	1.73	2.99	1.05	11.38	15.16	8.49	.....
September	26	16.55	17.78	15.01	1.05	1.63	.51	10.00	19.72	8.22	.....
October	26	16.48	17.82	15.30	1.88	4.98	.44	15.99	26.03	7.39	8
November	23	16.31	17.05	15.76	.46	.85	.20	12.02	15.89	4.65	23
December	25	16.32	16.81	15.59	.64	1.70	.27	13.49	15.34	12.05	25
January	26	17.11	18.40	15.97	.70	2.55	.28	15.49	21.09	10.68	26
February	24	17.59	19.00	16.32	.92	1.44	.42	11.55	13.63	10.13	24
March	25	17.27	18.54	16.03	1.24	2.00	.64	10.00	13.70	7.39	13
April	27	16.70	17.52	16.00	1.67	2.83	.42	7.89	10.96	5.82	(†)
May	25	17.32	18.69	16.46	2.81	5.01	1.78	6.63	9.59	4.52	5
June	26	17.11	18.53	16.33	2.14	4.59	1.02	6.59	9.59	4.11	26
Total	304	202.59	.....	.....	17.20	.....	.....	129.23	.....	.....	154

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Sulphuretted hydrogen.
*Mean of 304 observations.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Number of times present during the year.
16.88	19.46 (Aug. 8.)	12.39 (July 16.)	1.43	5.01 (May 10.)	.20 (Nov. 21.)	10.76	26.03 (Oct. 8.)	4.11 (June 2.)	154

* Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute.
† No record.

REMARKS.—On seventeen occasions the illuminating power of the gas was less than sixteen candles; on six occasions sulphur was in excess of the quantity allowed. With the exception of these violations, the quality and purity of the gas supplied by the Washington Gas-Light Company during the year has been in accordance with the requirements of the law of Congress regulating gas works, approved June 23, 1874.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

TABLE B.—*Illuminating power and purity of the gas supplied by the Georgetown Gas-Light Company, from June 30, 1879, to June 30, 1880.*

Months.	*Number of observations.	Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Number of occasions that sulphuretted hydrogen was present during the year.
		Mean.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	
July	25	16.78	18.48	15.58	7.65	12.85	1.70	8.20	10.00	1.37	1
August	26	16.81	18.20	15.06	5.37	8.02	3.16	8.42	10.54	7.26	.....
September	26	16.87	18.54	15.12	2.27	3.29	1.32	10.44	12.05	8.76	.....
October	26	16.83	18.04	15.27	1.10	1.42	.73	10.81	12.27	7.61	.....
November	23	16.40	18.10	15.36	1.62	5.27	.59	10.99	13.56	9.17	.....
December	26	16.97	18.62	13.89	.62	.88	.51	12.65	17.67	10.00	.....
January	25	16.94	19.29	15.81	.54	.62	.45	14.06	16.85	11.23	2
February	23	16.77	18.02	14.69	.58	.98	.34	13.16	17.19	10.00	3
March	25	17.51	18.92	16.53	.51	.68	.37	9.89	11.64	8.42	.....
April	27	16.97	18.54	14.56	.53	1.05	.27	9.00	10.00	7.60	.....
May	25	16.77	17.81	15.50	1.05	1.61	.68	9.74	13.70	7.26	1
June	26	16.47	17.80	15.52	1.79	2.04	1.51	12.00	14.65	7.94	3
Total	303	202.09	.....	.....	23.63	.....	.....	129.36	.....	.....	10

AVERAGE FOR THE YEAR.

Illuminating power in sperm candles.			Quantity of ammonia in 100 cubic feet.			Quantity of sulphur in 100 cubic feet.			Sulphuretted hydrogen.
*Mean of 303 observations.	Highest.	Lowest.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Mean number of grains.	Highest number of grains.	Lowest number of grains.	Number of times present during the year.
16.84	19.29 (Jan. 7.)	13.89 (Dec. 24.)	1.96	12.85 (July 16.)	.27 (April 6.)	10.78	17.67 (Dec. 22.)	1.37 (July 7.)	10

*Each observation consists of twenty readings on the Bunsen photometer, at intervals of one minute.

REMARKS.—On twenty-five occasions the illuminating power of the gas was less than 15 candles. On twenty-nine occasions ammonia was in excess of the quantity allowed. With the exception of these violations, the qualityand purity of the gas supplied by the Georgetown Gas-Light Company during the year has been in accordance with the requirements of the law of Congress regulating gas works, approved June 23, 1874.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia

TABLE C.—*Meters inspected and proved for the Washington Gas-Light Company and for consumers of gas in Washington, from June* 30, 1879, *to June* 30, 1880.

	July.	August.	September.	October,	November.	December.	January.	February.	March.	April.	May.	June.	Total.
Whole number of meters tested	81	36	96	225	83	147	125	49	148	91	70	66	1,217
New meters for company	.....	.....	....	121	32	93	81	6	45	.....	1	.....	379
Number fast	.....	.....	.....	3	1	.....	.....	.....	.....	....	.....	.....	4
Per cent. fast	.....	.....	.....	3.33	2.83	.....	.....	.....	.....	.....	.....	.....	*3.08
Number slow	.....	.....	....	.....	.....	.....	1	.....	.....	.....	.....	.....	1
Per cent. slow	.....	.....	.....	.....	.....	.....	4.33	.....	.....	.....	.....	.....	*4.33
Number correct	.....	.....	.....	118	31	93	80	6	45	.....	1	.....	374
Repaired meters for company	72	27	91	91	46	34	33	27	93	81	59	63	717
Number fast	.....	.....	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	1
Per cent. fast	.....	.....	.....	.....	.....	.....	.....	.....	.....	4.66	.....	.....	*4.66
Number slow	1	.....	.....	1	.....	1	.....	.....	1	1	1	.....	6
Per cent. slow	2.66	.....	....	4.33	.....	3.23	.....	....	6.67	4.33	3.50	....	*4.12
Number correct	71	27	91	90	46	33	33	27	92	79	58	63	710
Consumers' meters on complaint of consumers.	....	.....	3	4	1	3	2	7	2	5	5	.....	32
Number fast	.....	.....	.....	1	.....	1	2	4	2	3	1	.....	14
Per cent. fast	.....	.....	.....	7.33	.....	7.25	5.03	4.91	4.20	3.52	3.83	.....	*5.15
Number slow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent. slow	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number correct	.....	.....	3	3	1	2	.....	3	.....	2	4	.....	18
Consumers' meters on complaint of company	9	9	2	7	3	11	5	8	7	3	5	3	72
Number fast	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Per cent. fast	....	12.33	....	.....	.....	.....	.....	.....	.....	5.66	.....	.....	*8.99
Number slow	9	8	2	7	3	9	6	5	7	2	5	3	63
Per cent. slow	24.09	15.12	10.83	14.99	29.61	17.99	18.55	21.92	12.63	4.75	16.20	8.49	16.26
Number correct	.....	.....	.....	.....	....	2	2	3	.....	.....	.....	.....	7
Consumers' meters on complaint of company that did not register	.....	.....	....	2	1	6	4	1	1	2	.....	....	17

*Average.

REMARKS.—During the fiscal year ending June 30, 1880, this office inspected and proved for the Washington Gas-Light Company, and for consumers of gas in Washington, 1,217 meters. Of this number, 21 registered fast, average error 5.47 per cent.; 70 registered slow, average error 8.23 per cent.; ,109 registered within the limits allowed by law, namely, 2 per cent. either way, and 17 did not regis- er the gas flowing through them.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

TABLE D.—*Meters inspected and proved for the Georgetown Gas-Light Company and consumers of gas in Georgetown, from June 30, 1879, to June 30, 1880.*

	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total.
Whole number of meters tested..	27	2	23	10	4	4	12	3	...	5	1	1	92
New meters for company.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number fast	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent. fast.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number slow.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent. slow.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number correct	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Repaired meters for company.....	24	.....	.....	1	.....	.....	5	.....	.....	.....	.....	.....	30
Number fast.....	.....	.....	.....	.....	.....	.....	2	.....	.....	.....	.....	.....	2
Per cent. fast.....	.....	.....	.....	.....	.....	.....	6.83	.....	.....	.....	.....	.....	*6.83
Number slow.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Per cent. slow.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Number correct	24	.....	.....	1	.....	.....	3	.....	.....	.....	.....	.....	28
Consumers' meters on complaint of consumers	2	.....	1	.....	2	3	7	2	...	3	1	1	22
Number fast.....	1	.....	.....	.....	2	1	4	.....	...	1	...	.....	9
Per cent. fast	2.50	.....	.....	.....	2.87	3.75	4.12	.....	...	7	...	.....	*4.04
Number slow.....	.....	.....	.....	.....	.....	1	1	.....	...	2	...	1	5
Per cent. slow.....	.....	.....	.....	.....	.....	4.33	3.66	.....	...	7.66	...	7.33	*5.74
Number correct	1	.....	1	.....	.....	1	2	2	...	.....	1	.....	8
Consumers' meters on complaint of company	1	2	22	9	2	1	.....	1	...	2	...	.....	40
Number fast	.....	.....	2	1	.....	.....	.....	.....	...	1	...	.....	4
Per cent. fast.....	.....	.....	4.33	4.16	.....	.....	.....	.....	...	7.16	..	.....	*5.21
Number slow.....	.....	1	8	4	1	.....	.....	.....	...	.....	...	.....	14
Per cent. slow.....	.....	18.66	14	4.47	32	.....	.....	.....	...	.....	...	.....	*17.28
Number correct	1	1	12	4	1	1	.....	1	...	1	...	.....	22
Consumers' meters on complaint of company that did not register.	.....	.....	.....	.....	.....	.....	.....	.....	...	.....	...	.....	.....

* Average.

REMARKS.—During the fiscal year ending June 30, 1880, this office inspected and proved for the Georgetown Gas-Light Company, and for consumers of gas in Georgetown, 92 meters. Of this number 15 registered fast, average error 5.36 per cent.; 19 registered slow, average error 11.51 per cent.; and 58 registered within the limits allowed by law, namely 2 per cent. either way.

S. CALVERT FORD,

United States Inspector of Gas and Meters for the District of Columbia.

TABLE E.—*Pressure of the gas supplied by the Washington Gas-Light Company, as registered in this office from July 1, 1879, to June 30, 1880.*

Month.	Mean pressure expressed in inches.	Maximum pressure expressed	Minimum pressure expressed in inches.
1879.			
July	.887	3.650	.625
August	.872	2.775	.525
September	.855	1.200	.460
October	.904	1.175	.550
November	.961	1.250	.425
December	.963	1.250	.725
1880.			
January	.964	1.250	.600
February	.912	1.250	.600
March	.930	1.275	.560
April	1.011	1.550	.700
May	1.194	1.625	.750
June	1.119	1.550	.800
Total 12 months	11.572		

Average: Mean pressure, .964 inches; maximum pressure, 3.650 inches; minimum pressure, .425 inches

REMARKS.—The pressure on the main at this point is two-tenths of an inch less than recorded above.

S. CALVERT FORD,
United States Inspector of Gas and Meters for the District of Columbia.

W.—REPORT OF THE HEALTH OFFICER.

OFFICERS OF THE HEALTH DEPARTMENT.

HEALTH OFFICER.

Smith Townshend, M. D.

CHIEF CLERK.

J. C. McGinn.

ASSISTANT CLERKS.

John N. Dickson.
Will A. Short.
W. B. Jones.
R. M. Barr.
A. J. Heird.

SANITARY INSPECTORS.

Samuel A. Robinson.
James McV. Mackall, M. D.
John P. Dennis.
Thomas M. Shepherd.
Theo. Mead, M. D.
C. C. Simms.

FOOD INSPECTORS.

George P. Bohrer. Caleb Sebastian.* Benjamin S. Elliott.

INSPECTOR OF MARINE PRODUCTS.

John R. Sutton.*

POUND MASTER.

Samuel Einstein.

MESSENGER.

P. H. Godwin.

PHYSICIANS TO THE POOR.

J. W. Little, M. D.
C. G. Stone, M. D.
H. Suter, M. D.
H. M. Newman, M. D.
J. Walter, M. D.
B. M. Beall, M. D.
A. E. Johnson, M. D.
H. E. Leach, M. D.
A. A. Marsteller, M. D.
D. B. Street, M. D.
W. P. C. Hazen, M. D.

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* Detailed from Metropolitan police force.

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REPORT.

I have the honor to present the following statement in detail, showing operations of the health department during the fiscal year ending June 30, 1880, together with recommendation of certain things which, in my opinion, will tend to increase the efficiency of the service. The work performed speaks for itself, and will, I trust, meet with the approval of yourselves and the people of the District.

The year has been one of unusual healthfulness for our people. Entire immunity from disease in epidemic form has been enjoyed, and the afflictions common to mankind have been dealt out to us with a sparing hand. When comparison comes to be made with some of our sister cities of the Union, we must feel truly thankful, and if the efforts of this department have contributed in the least toward effecting the benign condition, our humble labors have been amply recompensed.

As the recent census shows our District largely increased in population, wealth, and industry, so do the records of vital statistics show that we are improving in healthfulness. Our mortality records are known to be absolutely correct. The figures of population on which we have been basing our death-rate during past years are shown to have been too small. What is the history of many other cities? The estimated population is shown in many instances to have been far above and beyond the actual number of inhabitants, and the death-rate thereby placed far below its real standing. We have been rating the deaths in each one thousand of our inhabitants higher than we should, and yet our showing has, in a large majority of instances, compared most favorably with those flying false colors. We have been made to compare, too, with many cities which have not laws to enable them to secure a full and correct record of deaths, or if they have laws, they are not properly enforced. We know our records to be correct; every death must of necessity be reported and go upon the books. The system is so perfected as to render escape from compliance with the law on this point well-nigh impossible. In quite a number of cities burial permits are not required at all; in others, where a certain kind of certificate is required, the business of collecting statistics is conducted loosely, and many deaths are not reported or recorded. The non-reporting of these deaths goes, of course, to diminish their death-rates, and their figures of mortality are put forth in published reports to compare with those of cities where proper laws and regulations do exist, and are properly enforced, and whose figures do not lie.

We have been accused here of rating our population too high, and the good showing heretofore made has been questioned on this ground. The tenth census puts that jibe to shame, and shows that instead of rating too high we were leaving ten thousand of our inhabitants out of the count, and showing a death-rate considerably higher than it actually was.

Taking these facts into consideration, there is certainly good reason for congratulation, and we can laugh at the idle summer rumors, man-

ufactured by wanton correspondents regarding Washington's unhealthfulness.

The work of the health department has progressed during the past year under more favorable circumstances, with probably one exception, than in any year since the inauguration of the service. Every year the number of persons who appreciate the labors of the health officials is increased, and assistance is now often lent where obstruction was formerly put forth. The masses begin to recognize the fact that no means so surely promotes the elevation of the lower classes as does the promotion of public and private cleanliness, and agitators of sanitary reform are no longer confined to the medical fraternity alone. The seed implanted in the minds of the public during latter years is beginning to bear fruit, and many who do not place the strongest recognition upon godliness are attending to cleanliness. It is encouraging to those engaged in the good work to find many who had to be forced formerly to abate nuisances existing on their premises now conforming strictly to sanitary laws, and urging like action upon those around them.

The following synopsis shows, in condensed form, the nature and amount of work performed:

There were 25,587 nuisances reported and abated; 43,064 pounds of meat, 13,942 bushels of fruit and vegetables, 112,501 pounds of fish, and 11,236 bushels of oysters condemned as unfit for food; examinations and reports made on 2,134 citizens' complaints; orders issued for burial at public expense in 597 cases; examinations made to ascertain local cause of disease in 112 cases; 2,160 official letters written; 2,584 official notices issued; 99 cases referred to the attorney for prosecution under the health ordinances; 2,625 animals impounded; 4,338 dead animals, $7,456\frac{8}{20}$ tons of garbage, and 22,153 barrels of night-soil removed; 254 deaths referred to the coroner for investigation; 4,720 permits for burial issued, and the office work of registry, compilation, &c., conducted. I trust the reports on the several subjects will merit your careful perusal.

Table A, following, shows nuisances to the number of 25,587 reported and abated during the year. It is interesting as a study of the various kinds of things becoming nuisances.

TABLE A.—*Consolidated report of nuisances for the year ending June* 30, 1880.

Nature of nuisance.	Months.												Total.
	1879.						1880.						
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	
Alleys	76	31	22	34	27	26	33	26	38	29	63	43	448
Alleys, need repair.	5	.....	6	3	.....	.....	.....	1	2	1	.....	.....	18
Areas	3	8	1	1	2	3	2	1	4	1	1	8	35
Ashes	47	15	39	1	17	29	22	28	37	68	80	42	425
Cellars	14	14	17	18	5	5	8	9	9	15	11	11	136
Drainage, defective	47	68	44	81	71	69	32	21	30	55	60	67	645
Excavations	.....	.....	.....	1	1	.....	.....	1	1	.....	.....	1	5
Factories, soap	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	.....	1	2
Garbage	15	27	29	9	8	5	41	27	22	18	11	29	241
Gutters	63	33	13	18	5	1	5	2	1	17	25	25	208
Hog-pens	6	41	32	8	1	1	.....	5	6	5	4	10	119
Houses, filthy	11	12	16	4	23	6	16	12	16	27	27	21	191
Houses, unfit for habitation	13	24	9	7	5	8	2	15	10	14	24	8	139
Houses, slaughter	7	5	.....	1	1	.....	.....	.....	.....	.....	5	.....	19
Houses, no privy	5	5	11	3	4	4	1	4	12	1	2	7	59
Hydrants	3	4	.....	3	3	4	1	3	3	2	.....	.....	26
Lots, filthy	17	29	26	23	5	11	7	3	10	6	11	15	163
Lots, stagnant water	5	23	2	6	1	4	6	3	13	8	6	6	83
Manure	17	13	33	23	33	15	12	12	21	27	41	46	293
Markets, public	1	1	2	.....	.....	.....	.....	.....	.....	1	1	.....	6
Miscellaneous	135	92	64	70	121	66	21	41	56	70	124	105	965
Pumps	1	1	.....	1	1	.....	.....	.....	.....	.....	.....	.....	4
Pipes, water	4	.....	2	1	5	2	.....	1	4	2	2	4	27
Ponds	.....	.....	.....	2	1	.....	1	.....	10	2	.....	7	23
Privies, filthy	439	426	608	659	673	611	594	402	431	541	628	505	6,517
Privies, dilapidated	8	8	6	8	1	8	12	5	11	9	7	4	87
Privies, full	625	763	887	886	767	724	744	529	550	602	807	648	8,532
Privies, leaky boxes	130	133	175	151	241	83	65	50	114	104	134	138	1,518
Roofs, leaky	2	6	8	12	38	15	6	.....	4	3	11	6	111
Sewers	20	20	23	20	29	29	27	20	11	14	29	28	270
Sewers, house connection	13	12	6	7	22	5	8	3	10	6	7	10	109
Stables	14	17	11	9	15	8	7	8	20	18	10	19	156
Stables, cow	.....	4	12	15	28	11	8	2	.....	6	13	20	119
Streets, filthy	4	6	5	6	1	.....	4	.....	14	2	2	4	48
Streets, need repair	.....	1	1	.....	.....	.....	.....	.....	1	.....	.....	2	5
Traps, sewer	55	21	14	26	19	10	4	5	9	17	21	24	225
Yards	211	222	325	229	295	254	278	210	312	354	429	319	3,438
Yards, cow	.....	.....	1	3	.....	3	5	2	1	.....	6	2	23
Vaults, privy	.....	1	.....	.....	.....	.....	.....	.....	.....	1	.....	.....	2
Water-closets	14	11	4	12	11	8	10	8	12	17	14	12	133
Wharves	14	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	14
Total	2,044	2,097	2,454	2,361	2,480	2,028	1,982	1,460	1,805	2,063	2,616	2,197	25,587

TABLE A.—APPENDIX.—*Consolidated report of nuisances for nine years ending June* 30 1880.

Nature of nuisance.	Years.									Total.
	1872.	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	
Alleys	982	1,508	1,986	1,315	800	608	357	453	466	8,475
Areas	12	18	18	65	83	52	27	56	35	366
Cellars	54	245	175	178	159	115	137	169	136	1,368
Drainage, surface	286	658	2,036	.....	.....	228	443	725	645	5,021
Excavations	41	48	49	35	19	6	27	15	5	245
Gutters	902	1,008	989	363	323	279	216	178	208	4,466
Garbage	457	566	1,128	.....	345	215	219	88	241	3,259
Hog-pens	219	211	61	45	68	57	50	49	119	879
Houses, filthy	108	800	1,426	871	424	512	245	146	191	4,723
Houses, unfit for habitation	.....	.....	.....	699	.....	.....	.....	308	139	1,146
Houses, condemned	.....	.....	.....	.....	371	153	250	.....	.....	774
Houses, slaughter	65	66	56	82	24	14	21	14	19	361
Houses, no privy	.....	.....	125	173	86	31	27	50	59	551
Hydrants	51	147	64	96	50	27	26	31	26	518
Lots, filthy	.....	538	605	190	408	79	103	357	163	2,443
Manure, heaps	447	981	1,292	1,619	768	513	523	107	293	6,561
Markets, public	.....	.....	.....	10	6	15	21	2	6	60
Miscellaneous	447	1,020	1,554	1,764	913	617	746	1,080	1,406	8,547
Pumps	235	93	111	206	21	22	20	6	4	718
Pipes burst, water	23	67	85	79	33	36	48	31	27	429
Ponds, stagnant	463	174	9	330	166	219	360	195	106	2,022
Privies, filthy	1,826	5,030	.....	1,591	2,023	909	1,991	3,951	6,517	23,838
Privies, full	.....	.....	6,089	7,300	5,538	9,385	4,745	6,327	8,532	47,916
Privy-boxes, leaky	.....	.....	727	1,035	830	641	896	903	1,518	6,550
Privies, dilapidated	.....	.....	.....	239	476	188	171	204	87	1,365
Roofs, leaky	.....	.....	.....	.....	.....	172	301	331	111	915
Sewers, public	.....	717	182	278	401	215	248	212	270	2,523
Sewers, house connection	.....	.....	11	1,340	1,641	393	247	317	109	4,058
Stables	305	711	1,059	682	293	394	456	245	275	4,420
Streets, filthy	622	531	469	294	186	98	70	92	53	2,415
Traps, sewer	177	168	225	314	512	254	115	219	225	2,209
Yards	936	1,480	2,643	2,839	2,610	1,313	1,057	1,719	3,438	18,035
Yards, cow	35	92	84	90	437	151	193	23	23	1,128
Vaults, privy	.....	.....	.....	70	39	16	17	23	2	167
Water-closets	10	142	107	318	109	168	120	149	133	1,337
Total	8,703	16,019	23,365	24,510	20,261	18,095	14,493	18,775	25,587	169,808

ALLEYS.

Taking in regular order the nuisances depicted in Table A we find alleys first, and ascertain that in 466 cases they have been reported in a state of nuisance.

The alleys being cleaned by contract, and the superintendence of that contract being under control of another department of the government, our province only extends to the reporting of such of them as are found by our inspectors in unsanitary condition, with request that special action be taken in these cases. The frequency of report is evidence of the fact that they are not always in good order; the work of draining them by construction of proper sewers carried their entire length is being pushed forward as rapidly as possible by the engineer department, and as soon as this is accomplished the complaints of foul odors and offensive accumulations, which is the burden of many communications from citizens, will no longer occur, and alleys as nuisances, I trust, disappear from the inspection reports. Attention was called to this subject in my last annual report.

THE REMOVAL OF ASHES.

This is a subject of no small importance, and one upon which action has, I think, been too long delayed. No provision is made for removal

of ashes by the authorities, and as a consequence large accumulations are found in alleys, yards, and vacant spaces over the entire area of the two cities. These accumulations of ashes become also a place of deposit for filth and refuse of all kinds, and entice the creating and maintaining of numberless nuisances. On a majority of premises in Washington and Georgetown, you will find in cellar, area, or yard such an accumulation. In some cases it is kept in box or barrel, in others it is dumped on the ground or pavement in one corner of the yard. To it is added daily some portion of refuse, animal or vegetable, potato-parings, egg-shells, dish-water, and other refuse. If in the cellar, which you will find in many instances is the case, the foul odors and noxious gases emanating therefrom permeate the entire house, and their constant inhalation by the inmates results in some form of low fever, which no one can account for, and which is accordingly set down, in case of death therefrom, as a "visitation of Divine Providence." The ash of wood or coal is not set down in the category of nuisances, and taken alone there is nothing in either to prove injurious to health, but, as I said before, the accumulation invites deposits of animal and vegetable matter, and these decaying do create a nuisance, and one, which if within a building used as a dwelling is liable to prove injurious to the health of the inmates.

I think, therefore, it would be a wise measure for the authorities to take steps looking to the regular removal of ashes from dwellings. This is a work performed in many cities, and one which, I think, could be inaugurated and successfully conducted here at no very great expense. It will be noticed by reference to the table that 425 nuisances, resulting from accumulations of ashes, are recorded thereon.

DEFECTIVE DRAINAGE.

In my last annual report I dwelt at some length upon this subject and endeavored to impress upon my readers the necessity of preserving a well-drained soil around dwellings. The air of many of our houses in the suburbs is polluted to a greater degree by emanations from undrained yards made to receive all refuse, waste water, &c., than from the miasma arising off our much and justly complained of "flats."

Connections with sewer have been made in 109 cases during the year. One of the most common, as it is the most unreasonable and irritating of reasons put forth for not doing it by persons notified to drain premises, is that they have been undrained for years and years. If you should ask these persons why they have not continued the raiment of fig-leaves worn by our common ancestors in the Garden of Eden "years and years" ago, they would say that was out of the question. They cannot be brought to look at or appreciate progress in any light where it affects their pockets, while improving the surroundings and tending to promote the health of their fellow man.

A well-drained soil is one of the very first considerations to be observed in the effort to secure a perfect sanitary condition of our homes. Natural drainage does not suffice where the population has become to any great extent centralized, and hence the demand for sewerage and underground drainage in all cities and large towns. As our populated area extends we find it necessary to extend our sewers, and when the public sewers are laid then connection of private premises therewith is demanded, as well by the laws of nature as those of the land. Notifications to connect with sewer are looked upon by those occupying premises, in what was once a remote suburb, but recently grown to be a more densely populated section, as unwarranted measures, demanding useless expenditures of money, and the health officials are accordingly

condemned as tyrants, exercising undue power. This feeling gives way to one of thankfulness when they come to realize the benefit derived by the improvement they have been forced to make to their property, and they finally come to think that we are not such bad fellows after all.

OFFENSIVE TRADES—SOAP FACTORIES, &C.

The ancient representation of justice, is that of a blind goddess, and it would seem that blindness is truly one of her characteristics in dealing with the perpetrators of certain nuisances in the District of Columbia. She has not yet been brought to see the necessity for inflicting punishment upon the proprietors of mills which grind out offensive odors and disseminate noxious gases into the atmosphere breathed by our people.

In my last annual report, speaking of soap-factories, I said:

> That these pestilential nuisances should still be allowed to remain in the densely populated sections of our city, one within a stone's throw of the Patent and Post-Offices, and another almost under the shadow of the President's house, is a stigma upon the capital city in this advanced and advancing age of sanitary reform. The subject is fully covered in the health ordinances, but, unfortunately for the suffering citizens in the immediate vicinity of these nuisances, a decision of the supreme court of the District, has rendered us virtually powerless to take further action without amendment to existing laws. This was urged last spring, but owing to the short session of Congress, and press of other business, no action could be had.
>
> I trust we may be more fortunate at the coming session, and that another year may find our community ridded of these noisome pest-houses.

We *were* more fortunate. The legalization of the health ordinances was secured and that removed the obstacle which it was said impeded action by the courts. Then procedure against one of the parties responsible was commenced and pushed forward. Certiorari was taken by defendant from the police court, where action was instituted, and the case went to the supreme court of the District. There it remains and we are as powerless as ever, until some decision is reached. Justice cannot see the necessity for pushing the matter to any conclusion. In about the same predicament stands another case coming under this head. The refining of asphalt is an offensive trade, described at some length in last year's report, and one which has caused no end of discomfort, if not ill health, among our citizens. After an extended inquiry into the matter of the asphalt refining nuisances and careful investigation as to results therefrom, affecting the health of the people, it was deemed best to at least require their removal from the most densely populated sections, where several now exist. Being unable at that time to prosecute under the health ordinances, the parties were brought before the grand jury and an indictment found against them. The indictment ends the story here, as does the certiorari in the first case, and the responsibility for the continuance of these nuisances rests not upon the shoulders of the health department.

THE GARBAGE QUESTION.

I do not approach the discussion of this subject with any extra degree of pleasant reflection thereon. Indeed I have become so thoroughly disgusted in ceaseless, untiring, and withal, unavailing effort to secure some improvement in this service of the collection of garbage that the very mention of the word is almost sufficient to nauseate.

It seems strange that we of the District of Columbia should have so much trouble with a service which is satisfactorily performed in almost every other city; yet the fact remains, and during the past two years the public has been forced to submit to the greatest discomfort, and doubtless, at times, injury to health, resulting from accumulations of

decaying animal and vegetable matter allowed to remain for days and even weeks upon premises throughout our cities. This, too, when parties had entered into contract, under bond, with the authorities, guaranteeing a prompt semi-weekly and tri-weekly removal of garbage from all dwellings.

I find, however, that the history of the sufferings of the community from neglect in the removal of offal dates back as far as the records of the health organization, and proves rather interesting as a study of the patience which a people will sometimes exert. In the first report of the late board of health (1872) I find reference made to this subject in the following language: "There is no nuisance that has given more trouble and has been more inefficiently removed than this." The failure at that time was charged to insufficient number of collectors, and it was urged upon the legislature to increase number from sixteen to thirty-two. The next year trouble seems to have continued, and it was claimed that collectors, having been appointed for political services, had employed irresponsible boys or men who knew little or cared less about the work they had to perform; the force it seems was deemed too small, as I find the following assertion: "To impose upon twenty-one collectors of garbage the burden of work requiring forty, and then complain that the work is not thoroughly done, is manifestly unjust; but such has been the burden imposed during the past year." In 1874 a change for the better seems to have occurred, as the health officer says:

"The garbage service probably never was as satisfactorily and economically performed as at the present time; being directly under control of this office, and not subject to the whims of politics or personal prejudice, we have been able to select faithful and efficient men who are anxious to excel in their labor, knowing that their position depends upon their excellence as garbage collectors.

"Twenty men are now employed, the city having been divided into as many garbage districts, so defined as to place each collector under the direct superintendence of one of the nine sanitary inspectors, and each inspector is held responsible for the condition of his district in regard to garbage as to other nuisances injurious to health, so that virtually there are nine superintendents of the work."

The delightful state of affairs depicted in the above did not last long; it seems to have been entirely too good to last, and in the year following we find that the spirit of economy has come into their dreams, and the garbage service has fallen into the hands of a contractor, who is to experiment with a new system.

The experiment inaugurated in 1875 is, I regret to say, still in progress. During the interim between that time and this the different ones engaged in the work of conducting this experiment seem to have been actuated by a determination to ascertain who could perform the least labor in getting through with the contract.

In my last annual report I devoted some little space to remarks on the subject of garbage, stating what had been done, a good deal that had not been, and promising better things another year. I resolved when another warm season approached, if the neglect, carelessness, lack of system, and disregard of appearance which had characterized the service during the summer of 1879 should continue, then I would at least use my best efforts to secure some change.

My best efforts were used, but they failed to secure the desired result. I reported the existing condition of things to the Commissioners and urged some action whereby relief might be afforded the people. The Commissioners were of opinion that under existing circumstances they

could not improve the service by making a change, and I was of course powerless to act further.

Now, however, I think an opportunity is afforded for securing a change for the better, and I would urge with all the earnestness possible that it be not allowed to pass again. It is generally accepted as a fact that the contract for this work was taken at too low a figure to enable contractor to comply with its terms and pay expenses. Now if a sufficient sum is appropriated for securing a proper performance of the work the trouble may be avoided in future.

I sincerely trust the necessity for an increased appropriation for collection and removal of garbage will be urged upon Congress at the approaching session.

Tabulated statement showing amount of offal removed during year ending June 30, 1880.

Months.	No. of dead animals.	Tons of garbage.	Barrels of night soil.
1879.			
July	280	486	2,283
August	735	1,385	2,949
September	538	1,176 8/20	2,234
October	421	613	2,884
November	426	256	1,675
December	242	511	1,710
1880.			
January	177	609	1,912
February	131	464	1,250¾
March	141	479	1,340
April	420	686	1,355
May	392	684	1,136
June	425	606	1,325
Total	4,338	7,456 8/20	22,153¾

UNHEALTHY HOUSES.

The efforts of the health department during past years have secured many reforms in the rented houses of our two cities, and the condemnation of hundreds unfit for human habitation has contributed in no small degree to the beauty and healthfulness of Washington.

In the legalization of the health ordinances last winter, however, it was deemed wise by the gentlemen of the Senate Committee on the District of Columbia to leave out three sections, one of which was the section under which we acted in having house nuisances abated. The section referred to is section 9 of the ordinances as revised, amended, and adopted and reads as follows:

"That any dwelling-house or building wherein people live, congre gate, or assemble, which is deficient in ventilation, drainage, or other-provision essential to health, which has a leaky roof or is below grade so as to render the walls thereof damp and the rooms unhealthy, or is decayed or filthy, and premises which are filthy and offensive, are hereby declared nuisances injurious to health; and any person who shall create or maintain such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense."

This was certainly one of the most important sections in the entire code, and what influenced its non-legalization I am at a loss to imagine. If it is considered advisable to have houses in which people live, congregate, or assemble, deficient in the provisions essential to health, then we are certainly working in vain. If leaky roofs, damp walls, and unhealthy rooms are not prejudicial to health in houses and it is not necessary to have them free from filthy and offensive matter, then I am

sure the yards and surroundings could also be left to foul accumulations and defective drainage. There must have been some mistake under which our law makers labored in considering the question of the legalization of this section of the ordinances and when consideration of the municipal code, now pending, comes on, it is to be hoped that the mistake may be rectified.

STAGNANT WATER ON LOTS.

That section of the ordinances which declared lots containing stagnant water, located within the cities of Washington and Georgetown, to be nuisances injurious to health, is another one of the sections not legalized. The wisdom of this action may, I think, be questioned when it is known that all authorities on hygiene and public health, from the earliest to the latest, agree that an undrained soil, and accumulations of stagnant water, are the conditions most productive of what are known as malarial diseases. To prevent the pollution of the ground air about dwellings is the first step in importance when aiming to secure a perfect sanitary condition, and water remaining on the soil and becoming stagnant is one of the most common and prolific sources of this pollution.

"The extensive works for draining the subsoil, undertaken in all civilized countries for the advancement of agricultural projects, have incidentally exerted a very beneficial influence upon the public health. The construction of sewers for removing the surface water, and the liquid refuse from houses, has had the important effect of diminishing mortality, which effect is largely attributable to the drying of the subsoil by lowering the ground water. The investigations of Dr. Buchanan, with the object of determining the influence of the sewerage works of England on the public health, have demonstrated this fact beyond a doubt. The following table shows the general improvement which has taken place in the health of twelve towns principally in consequence of drainage operations:"*

Name of place.	Population in 1861.	Average mortality per 1,000 before construction of the works.	Average mortality per 1,000 since completion of the works.	Saving of life, per cent.	Reduction of typhoid fever, rate per cent.	Reduction of phthisis, rate per cent.
Banbury	10,238	23.4	20.5	12⅛	48	41
Cardiff	32,954	33.2	22.6	32	40	17
Croydon	30,229	23.7	18.6	22	63	17
Dover	23,108	22.6	20.9	7	36	20
Ely	7,847	23.9	20.5	14	56	47
Leicester	68,056	26.4	25.2	4½	48	32
Macclesfield	27,475	29.8	23.7	20	48	31
Merthye	52,778	32.2	26.2	18	60	11
Newport	24,756	31.8	21.6	32	36	32
Rugby	7,818	19.1	18.6	2½	10	43
Salisbury	9,030	27.5	21.9	20	75	49
Warwick	10,570	22.7	21.0	7½	52	19

With these and other like facts in view does it not seem strange that there should be stricken from the statute books a law under which the health authorities were enabled to act in securing the abatement of

* Hygiene and Public Health.—Buck.

nuisances (and they are certainly beyond the shadow of doubt), consisting of stagnant water on lots. This section should by all means be replaced.

MANURE AND ITS REMOVAL.

In referring to this subject I can do little more than reiterate the words of my last year's report, and urge that some spot be selected as an offal depot, where all material coming under the head of offal may be deposited and from whence shipments may be made. The establishment of such a depot would be a great aid in securing cleanliness of yards, lots, &c., throughout the cities. There being no established point for receipts of such material at present, much of it finds its way on to open lots and vacant spaces, where it continues to accumulate until nuisances are created. To repeat the words of my last report, "There should be a regular depot for the disposal of all refuse material taken from yards, stables, &c., and all persons removing such material should be required to deliver same at this depot under penalty of fine. This would keep such materials out of the holes and excavations on open lots, and prevent the filling of land below grade with refuse destined to decay and at some future period prove injurious to the health of persons occupying dwellings erected on such ground. I think if some point, say on the Eastern Branch of the Potomac River, could be selected, and all the offal from streets, yards, &c., be there deposited, then, as has been recommended, a tract of land in proximity to the river be purchased, and all this material utilized in enriching it, the returns therefrom would soon more than equal the outlay necessary for land and buildings. By construction of suitable buildings and use of proper appliances, such an institution could soon be made one of both credit and profit to the community. Shipments could be made promptly and without difficulty, and all the garbage, night-soil, street-sweepings, &c., could be utilized and disposed of without any offense.

If a service were inaugurated for the utilization of all our offals, I am satisfied that a market could soon be found for all surplus over and above what would be found necessary to use upon the public farm; and then, looking at it from a sanitary standpoint, it would prove invaluable as an assistant in keeping the city clean. Let there be a fixed point for all refuse material and you will soon find it going regularly to that point, and the nuisances arising from accumulations in yards, alleys, and open lots, will cease. By reference to table you will find that ashes have caused 425 nuisances during the past year; manure, 293; horse and cow stables, 275; while in yards were found 3,438. Now if there is a depot established for receipt of the material which causes these nuisances in yards, stables, &c., it will go to that depot at regular periods and these nuisances will be obviated.

HOUSE SEWERS AND DEFECTIVE PLUMBING.

The subject of "house drainage, sewer-gas, and defective plumbing," was discussed at length in my last annual report, and the appointment of an inspector of plumbing, clothed with proper authority, was urged. The bill introduced in Congress providing for such an officer passed the House of Representatives, then with a slight amendment passed the Senate, and being sent back to the House, went over, for want of time to reach it on the Speaker's table.

Increased experience on this subject only increases my knowledge of the imperative necessity for an inspection of plumbing work in all

houses at the time of their construction. In the light of present knowledge, it is shown that certain things are essential in house-drainage which are lacking in a large majority of our dwellings. How many of us who occupy houses with what are termed the modern improvements, can say that our closets and bath-rooms are free from foul odors which have found their way there from the sewers. How few have closets of what are known as the "pan" pattern, who can drop the pan and not receive a puff of foul air from the sewer in their nostrils.

These things can and should be avoided. I have labored assiduously since I have occupied the position of health officer, to impress this fact upon both our people and the law-makers. I think the necessity is recognized, and believe as soon as Congress meets again the long-sought object will be accomplished.

THE CLEANING OF SEWER-TRAPS.

I trust I may not be considered over zealous in again referring to this subject, and urging in the strongest possible manner that some less offensive method be employed in the cleaning of the drops or catch-basins, commonly termed sewer-traps, at our street corners. Complaints from citizens relative to this nuisance were numerous during the heated term.

It does seem strange that with the advance of improvements in almost every branch of public work, the present system of cleaning sewer-traps, corresponding to the ancient method of cleaning our cobble-stone streets with hoes and shovels, and privy-boxes with buckets, should still remain. It certainly looks, to say the least, out of keeping with other things to see three or four men with hooks and buckets dipping the foul accumulations from one of these receptacles, depositing the mass on pavement, and then dragging it off through the street in open carts, to offend the nostrils of every passer-by. If some pneumatic process cannot be brought into use to abate this nuisance, then during the summer months disinfectants should be used, and closed receptacles employed in transporting the material.

OUR PUMP WATER.

The subject of the pollution of drinking water is one which seems just at the present time to be receiving a large share of the attention of sanitarians and medical officers of health throughout this and other countries. A large majority of recent health reports contain articles and reports relative to the purity of certain waters, and the appearance of several new volumes on water analysis also tends to show an increasing interest in this direction. To secure pure water, pure air, and pure food, are subjects of paramount importance to every community, and it is the duty of every health organization to ascertain whether or not these elements of existence approach the proper degree of purity necessary to at least prevent their proving injurious to the health and lives of those who use them.

The chemists inform us that *pure water*, in the strict sense of that term, is not to be found in nature; that no matter whether it be received directly from the heavens in the shape of rain, taken as it lies in lakes or rolls in streams upon the surface of the earth, dipped from a bubbling spring at the base of a mountain, or procured by boring thousands of feet into the ground, in every case analysis finds substances which the chemist calls impurities; and it rests with him to inform us whether or not the impurities found are such as to render it unsuitable or unsafe

for domestic purposes. Of course many of the chemical or technical impurities in water are not dangerous substances. Indeed, many of our most famous waters, considered conducive to health, and specific remedies for certain diseases, are very far from the chemist's standard of purity; any foreign substance renders the water *chemically* impure, and *aqua puræ* can only be obtained by distillation.

Water is a great absorbent, and seems to have an affinity for almost every impurity with which it comes in contact. If in falling through the air from the clouds it passes a stratum of atmosphere vitiated from any cause, it will take up and bear with it a large proportion of the impure matter; and so in percolating through the earth if any pollution of the soil is found the water which passes will be found charged with the impurity.

The results attendant upon continued use of an impure water may be very gradual, and yet, when occasion be offered, prove very serious. This is true not alone of impure water, but of air, and even food; and the greatest bar in the road of the sanitarian and teacher of preventive measures is that "violent striking effects" are necessary to arrest public attention. Should an epidemic of typhoid fever break out, and the fact become known that it was attributable to the use of impure drinking-water, then the whole community would hasten to ascertain the cause of the pollution, and to apply a remedy; but so long as the approach to such a state of things is gradual, so gradual as to be imperceptible in the daily course of events, then it is taken as not worthy of attention. "Although," says Fox, "no sickness may be produced during the life of a man by the habitual use of an impure water, yet there can be no question but that impure water, like impure air, affects the physique of individuals, and tends to the degeneration of a race. * * * Some may triumphantly observe that they have been endangering their health during a great many years, and are not to their own knowledge at all the worse for the filth they have taken with their water. When will the public learn that what is apparently harmless to one, is poison to another; that some constitutions are susceptible to a disease to which others are quite unsusceptible; that the susceptibility, when it exists, may only manifest itself at certain ages or periods in life, or even at certain seasons of the year; that a person may at one time be susceptible to a disease, and at another time quite unsusceptible."

Notwithstanding these facts—and they are facts, easily sustained by proof—men are found who maintain that, because they have drank foul water all their lives without apparent injury, such water is not injurious to health. It is useless, however, to argue with people of this kind.

Analysis of the Potomac water with which our cities are supplied has often been made, and it is known to be nearly organically pure. In addition to the supply from the mains we have a large number of deep and shallow wells, the water from which is largely used. Considering it advisable that the purity of this water should be ascertained, we commenced about a year ago, and by virtue of the valuable aid of Prof. E. J. DeSmedt, are able to present herewith the results of analysis of water from one hundred and five of these wells.

At our request Prof. DeSmedt has given an outline of the methods employed in his analysis, the objects of his search and the meanings of certain classifications placed upon the waters in his expressed opinion. He says: "In forming a judgment as to the character of a water it is necessary to ascertain the following particulars:"

1st. Make microscopic examination.

2d. Determine the amount of organic matter.

3d. The existence or not of the products of the oxidation of organic matter, such as the nitrates and nitrites and the quantity of these salts.
4th. The amount of chlorine.
5th. The amount and nature of the saline constituents.
6th. The degree of hardness.
In a majority of cases, the first three points are the most important.

I.—MICROSCOPIC EXAMINATIONS.

Mineral particles may affect health on account of their mechanica action; mineral silt of clay or fine sand causes diarrhœa; dead animal and vegetable substances may have more important effects; suspended fœcal matter produces irritation of the whole alimentary tract. Living things, such as the ova of Entozoa, the nematoid worms, and small leeches may give rise at once to certain disorders. There are, however, numerous living creatures, both animal and vegetable, found in drinking-water, to which no special effect on health can be at present assigned. They are important only as showing the presence of organic impurities, which serve as their food, or as indicating putrefaction; but I would not hesitate to condemn a water containing bacteria or fungi, or swarming with the lower forms of life.

II.—ORGANIC MATTER.

All waters, even the purest, contain some organic matter; the excess is alone objected to. A great variety of methods have been employed and recommended for the determination of the amount of organic matter in water. The processes I have followed in these analyses consist in the estimation of the amount of ammonia present in water, before and after it is distilled, with a solution of permanganate of potash and a large excess of caustic potash, a mixture which possesses the power of converting *organic matter* into ammonia.

The process has two distinct stages, the estimation of the free ammonia, which is obtained by distillation of the water before the addition of permanganate of potash with caustic potash, and the calculation of the amount of albuminoid ammonia, "*alias the organic matter*" obtained by distillation after the addition of permanganate of potash and caustic potash.

If the distillation contains ammonia, a yellowish brown or amber color is procured by Nessler's test, the deeper the color the more ammonia being contained in it; if the amount of ammonia be very small the tint will be that of straw. This I mark *traces*, but when the depth of tint is of a deeper color, the distillation process is reported, and the amount either of free or albuminoid ammonia is determined by the volumetric system with a known quality of a standard solution of sulphuric acid, slightly colored with litmus; this acid with the distillate is neutralized with a standard solution of soda to determine the quantity of acid still free, which by simple subtraction will give the amount of acid which has combined with the ammonia, and from this I now calculate the ammonia, free or albuminoid.

III.—NITRATES AND NITRITES.

For the estimation of nitrates and nitrites I have given the preference to the volumetric indigo process, as modified by Boussingault; this method is based on the quantity of nitric or nitrous acid required to dissolve a given quantity of a standard tincture of indigo.

The sulpho-indigotic acid, its tincture, and the chloro-hydric acid employed in this process were prepared and purified according to Boussingault's recommendations (see Boussingault's Chimicagricole, vol. 1, page 247).

Quite a large quantity of nitrates may pass unchallenged in deep well water, which would relegate that of a shallow well to the category of suspicious or even dangerous waters; very little organic matter survives the exhaustive process of intermittent filtration which water suffers on its way to deep wells and springs. In shallow wells, on the other hand, while much organic matter in the water may be oxidized, living spores and germs capable of propagating disease may survive; the purifying effect of filtration into such wells is therefore not to be depended upon, as it may cease altogether if overtaxed.

IV.—CHLORINE.

The estimation of the amount of chlorine, which is chiefly present in water as a constituent of common salt, is in some circumstances worth little in itself, unless we know the amount of organic matter contained in it. In a district where an excess of chlorine does not occur in all water it is an indirect guide as to whether or not the water is contaminated with sewage.

For the estimation of chlorine, 50^{cc} of the water are measured into a small flask and a drop or two of a solution of yellow potassic chromate is added, from a small burette; a standard solution of nitras-argenti is run in drop by drop, until the liquid turns a faint red; no red chromate will be permanently formed until the last trace of chlorine has been precipitated by the silver; the number of ^{cc} of silver solution used will indicate the amount of chlorine in the water.

V.—SALINE CONSTITUENTS.

The separate determination of the weight of each constituent of the saline matters is very rarely required; these constituents, with a few exceptions, have no appreciable influence upon the wholesomeness of a water; certain of them can on no account, however, be omitted in passing judgment upon the quality of a water; these are ammonia, nitrates, nitrites, and chlorides.

The separation and determination of each mineral constituent may be dispensed with unless poisonous substances are among them.

VI.—DEGREE OF HARDNESS.

The method for estimation is simple and gives accurate results; it is based on the quantity of a standard soap solution required to procure a permanent lather.

VII.—CERTAIN RULES FOR JUDGMENT.

If a water yield merely traces of albuminoid ammonia it may be called organically pure, despite of 105 parts free ammonia per million. When the albuminoid ammonia amounts to .05 per million and free ammonia to 15 parts per million, water begins to be suspicious; free ammonia being absent or being small .10 per million of albuminoid ammonia begins to be very suspicious, and even .15 parts per million ought to be condemned as unfit for drinking purposes.

The average quantity of nitrates and nitrites in the pump waters of this city is from 4 to 10 parts in 100,000, but a water containing over

20 parts in 100,000, along with a great quantity of chlorine, I would consider as still usable, though *in danger of pollution.* In the presence of oxygen the nitrogen of animal matter is transformed, in great part, into nitric and nitrous acids, and these by combining with the baser substances, always present in polluted water, are in their turn converted into nitrates and nitrites. The change is most rapid and complete when polluted water passes through aerated soil, but when the soil is overloaded with organic matter, or by some unknown causes, the putrefaction by oxidation may be stopped and hence the pollution of the water."

"The average quantity of chlorine contained in the pump waters of this city is from 8 to 10 parts in 100,000 parts of water; 15 parts in 100,000 parts of water would be properly presumed to have a bad origin."

The following statement shows result of analysis in each of the 105 examinations made: Of the total number, 69 samples are pronounced "good water"; 20 "usable"; 15 unfit for drinking purposes, and 1 unfit for any domestic purpose. In the 16 cases last referred to action has been asked to prevent use by the public of water from the wells.

VIII.—*Analysis of pump water in the District of Columbia.*

Number	Location.	Degrees of hardness.	Solid residue.	Organic matter.	Free ammonia.	Albuminoid ammonia.	Nitrates and nitrites.	Mineral substances.	Microscopic examination.	Opinion.
1	New York ave. bet. 6th and 7th sts. n. w.	7	0.80	Traces.	Traces.	Traces.	0.040	Calcium, magnesium, sodium, potassium, aluminum, silica, chlorine, carbonic acid, and sulphuric acid.	No injurious organized lives visible.	Good water.
2	Cor. Delaware ave. and I sts. s. w.	5	0.24	Traces.	Traces.	Traces.	0.030	Sesqui-oxide of iron, 0.04, calcium, magnesia, chlorine, potassium, carbonic and sulphuric acids.	.....do	Classified in the category of mineral iron spring water, and might be used whenever iron is indicated by physician.
3	Cor. 5th and D sts. n. e	6	0.42	Traces.	Traces.	Traces.	0.045	Calcium, magnesium, sodium, potassium, aluminum, silica, iron traces, carbonic acid, sulphuric acid.	.....do	Good water.
4	Cor. 4th and F sts. n. w.....	6	0.46	0.03	0.001	0.0005	0.040	Calcium, magnesium, potassium, iron, aluminum, silica, chlorine, carbonic and sulphuric acids.	Bacteria, oxytricha, candatus .	Unfit for drinking.
5	Cor. 14th and D sts. s. w.....	7	0.76	Traces.	Traces.	Traces.	0.040	Calcium, magnesium, aluminum, potassium, silica, chlorine, carbonic acid, sulphuric acid.	No injurious organized lives visible.	Good water.
6	Cor. 13th and D sts. s. w.....	6	0.3450	0.005	0.10 M. G.	0.05 M. G.	0.080	Calcium, magnesium, potassium, aluminum, silica, carbonic acid, sulphuric acid, chlorine.	.....do	Usable water.
7	11th st. bet. F and G sts. n.w.	5	0.30	Traces.	Traces.	Traces.	0.060	Calcium, magnesium, potassium, aluminum, iron traces, silica, chlorine, carbonic acid, sulphuric acid.	.....do	Good water.
8	12th st. bet. G and H sts. n.w.	4	0.28	Traces.	Traces.	Traces.	0.050	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	..... do	Do.
9	Cor. 6th and East Capitol streets.	4	0.21	0.054	0.0025	0.0040	0.0016	Calcium, magnesium, iron, potassium, sodium, aluminum, silica, chlorine, carbonic acid, sulphuric acid.	.....	Unfit for drinking. (Iron mineral water.)
10	Cor. 4th and East Capitol streets.	4	0.15	0.001	0.10 M. G.	0.05 M. G.	0.04	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	Infusoria	Tolerable water.
11	8th st. near M st. n. w	5	0.17	Traces.	Traces.	Traces.	0.040	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water.

12	Cor. 9th and H sts. n. w	5	0.20	Traces.	Traces.	Traces.	0.045	....do	Some vegetable matter in suspension.	Do.
13	6th st. bet. F and G sts. n. w.	5	0.35	0.025	0.020 M. G.	0.610 M. G.	0.150	Calcium, magnesium, potassium, sodium, aluminum, silica, carbonic and sulphuric acids.	.....	Usable water.
14	Louisiana ave. bet. 9th and 10th sts. n. w.	5	0.20	Traces.	Traces.	Traces.	0.030	Hydrate protoxide of iron (0.15), calcium, magnesium, sodium, aluminum, silica, chlorine, carbonic acid, sulphuric acid.	.....	Good (iron mineral water).
15	6th st. and Louisiana ave. n.w	8	0.55	Traces.	Traces.	Traces.	0.090	Calcium, magnesium, sodium, potassium, aluminum, silica, chlorine, carbonic acid, sulphuric acid, iron traces.	.....	Good water.
16	Cor. 8th and F sts. n. w.....	4	0.25	Traces.	Traces.	Traces.	0.036	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Do.
17	Cor. 10th and H sts. n. w	6	0.50	*0.15	Traces.	Traces.	0.080	Calcium, magnesium, sodium, potassium, aluminum, chlorine, silica, carbonic and sulphuric acids.	.....	Do.
18	Cor. 3d st. and Indiana ave. n. w.	5	0.30	*0.15	Traces.	Traces.	0.040	Calcium, magnesium, potassium, sodium, silica, aluminum, chlorine, carbonic and sulphuric acids.	.....	Do.
19	4½ st. bet. Louisiana ave. and C st. n. w.	6	0.33	*0.14	Traces.	Traces.	0.045	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Do.
20	Cor. 2d st. and Indiana ave ..	4	0.25	0.07	Traces.	Traces.	0.048	Calcium, magnesium, potassium, sodium, aluminum, silica, carbonic and sulphuric acids.	.....	Do.
21	Cor. 6th st. and Maryland ave. s. w.	5	0.037	*0.10	Traces.	Traces.	0.050	Calcium, magnesium, potassium, chlorine, carbonic and sulphuric acids, sodium, aluminum, silica.	.....	Do.
22	Cor. 7th. st. and Virginia ave. s. w.	5	0.40	*0.15	Traces.	Traces.	0.060	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Do.
23	Cor. 8th and D sts. s. e	5	0.16	Traces.	Traces.	Traces.	Traces.	Calcium, sulphuric acid, traces carbonic acid, magnesium, sodium.	No animal or vegetable life visible.	Do.
24	Cor. 8th and E sts. s. e.....	5	0.18	Traces.	0.004 M. G.	0.005 M. G.	Traces.	Phosphoric acid traces, chlorine, carbonic acid, magnesium, calcium, sodium, sulphuric acid, traces.	.....do	Do.
25	Cor. 8th and I sts. s. e.....	8	0.42	Traces.	Traces.	Traces.	Traces.	Calcium, magnesium, sodium, potassium, carbonic acid, chlorine, sulphuric acid.	.....do	Do.
26	6th st., opposite Howard University, county.	4	0.25	*0.151	Traces.	0.30 M. G.	0.066	Calcium, magnesium, aluminum, potassium, sodium, silica, chlorine, carbonic and sulphuric acids.	.....	Unfit for drinking.
27	Cor. 4th st. and Pennsylvania ave. s. e.	5	0.21	0.005	Traces.	Traces.	0.010	Calcium, magnesium, sodium, carbonic acid, phosphoric acid, traces silica.	No animal or vegetable life visible.	Good water.
28	7th st., bet. Pomeroy and Trumbull sts., county.	5	0.10	*0.05	0.02	0.03	0.005	Calcium, magnesium, potassium, silica, sodium, aluminum, chlorine, carbonic and sulphuric acids.	Infusoria, bacteria.....	Unfit for drinking.

*And volatile.

VIII.—*Analysis of pump water in the District of Columbia*—Continued.

Number.	Location.	Degrees of hardness.	Solid residue.	Organic matter.	Free ammonia.	Albuminoid ammonia.	Nitrates and nitrites.	Mineral substances.	Microscopic examination.	Opinion.
29	Cor. 8th and Boundary sts. n. w.	7	0.39	0.13	0.70 M. G.	0.40 M. G.	Traces.	Silica, sodium, magnesium, calcium, iron traces, carbonic acid, chlorine, phosphoric acid traces.	Bacteria, vitrios oscillato, viacese palmellacease.	Unfit for drinking.
30	13th st. bet. N and O sts. n. w	5	0.20	0.06	Traces.	0.005	0.016	Carbonic acid, chlorine, calcium, phosphoric acid traces, magnesium, sodium, silica.	Bacteria, infusoria, and vegetable matter.	Do.
31	Well at Pound	7	0.20	0.04	Traces.	Traces.	0.106	Carbonic and phosphoric acid traces, aluminum, silica, magnesium, calcium, chlorine, iron traces.	No animal life visible	Usable water.
32	Cor. 18th and E sts. n. w	7	0.28	0.03	Traces.	Traces.	0.105	Carbonic, sulphuric, and phosphoric acid traces, alumina, sodium, calcium, magnesium, iron traces.	do	Do.
33	D st. bet. 22d and 23d sts. n. w.	9	0.40	Traces.	0.003 M. G.	0.104	0.030	Calcium, sodium, magnesium, aluminum, silica, iron traces, carbonic and sulphuric acids.	Vegetable matter	Do.
34	E st. bet. 17th and 18th sts. n. w.	5	0.20	Traces.	Traces.	Traces.	Treces.	Calcium, magnesium, potassium, sodium, chlorine, carbonic and sulphuric acids.	No animal or vegetable life visible.	Good water.
35	Cor. 6th and G sts. s. e	4	0.30	Traces.	0.002	Traces.	0.006	Calcium, magnesium, sodium, iron traces, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
36	Cor. L st. and Vermont ave. n. w.	5	0.20	Traces.	Traces.	Traces.	Traces.	Calcium, magnesium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
37	New York ave. bet. 17th and 18th sts. n. w.	5	0.26	Traces.	Traces.	Traces.	0.0014	Calcium, magnesium, sodium, iron traces, aluminum, silica, carbonic and sulphuric acids, chlorine.	do	Do.
38	Cor. 10th st. and Rhode Island ave. n. w.	5	0.20	0.052	Traces.	0.025	Traces.	Iron in excess, aluminum, silica, calcium, magnesium, sulphuric and carbonic acids, chlorine.	Bacteria, vitrios, citratas	Unfit for drinking.
39	Cor. M and Madison sts. n. w	6	0.24	Traces.	Traces.	Traces.	Traces.	Calcium, magnesium, sodium, iron traces, aluminum, silica, chlorine, carbonic and phosphoric acids.	No animal life visible	Good water.
40	Cor. 9th st. and New York ave. n. w.	10	0.60	Traces.	0.001	Traces.	0.0003	Calcium, sodium, magnesium, iron, silica, aluminum, chlorine, carbonic acid and phosphoric acid traces.	Infusoria	Usable water.
41	Cor. 4th and L sts. n. w	4	0.24	Traces.	Traces.	Traces.	0.001	Calcium, magnesium, sodium, iron traces, silica, aluminum, chlorine, carbonic acid, phosphoric acid traces.	Vegetable matter	Good water.

42	7th st. bet. Pennsylvania ave. and B st. n. w	5	0.30	Traces.	Traces.	Traces.	0.0006	Calcium, magnesium, sodium, iron traces, aluminum, silica, chlorine, carbonic acid, sulphuric acid traces.	No animal life	Do.
43	Cor. 12th st. and New York ave. n. w.	5	0.22	Traces.	Traces.	Traces.	0.0008	Calcium, magnesium, silica, iron traces, aluminum, sodium, chlorine, carbonic and sulphuric acids.	Minute vegetable matter	Do.
44	Cor. 12th and N sts. n. w	4	0.14	Traces.	Traces.	Traces.	0.0008	Calcium, magnesium, sodium, aluminum, silica, iron traces, chlorine, carbonic and sulphuric acids.	Minute vegetable matter and rotifera.	Do.
45	Cor. 12th and M sts. n. w	5	0.26	Traces.	Traces.	Traces.	0.0014	Calcium, magnesium, iron traces, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
46	Cor. 12th st. and Massachusetts ave. n. w.	5	0.36	Traces.	Traces.	Traces.	0.0012	Calcium, magnesium, sodium, iron, albuminum, silica, chlorine, carbonic and sulphuric acids.	Minute vegetable matter	Do.
47	Cor. 2d and B sts. n. w	5	0.26	Traces.	Traces.	Traces.	0.012	Calcium, magnesium, sodium, iron traces, silica, aluminum, chlorine, carbonic and sulphuric acids.	No injurious organized lives visible.	Do.
48	Cor. 5th and F sts. n. w	4	0.19	Traces.	Traces.	Traces.	0.090	Calcium, magnesium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
49	Cor. 21st and E sts. n. w	6	0.52	Traces.	Traces.	Traces.	†0.0305	Calcium, magnesium, sodium, iron traces, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
50	Cor. 13th and M sts. n. w	5½	0.20	Traces.	Traces.	Traces.	0.038	Calcium, magnesium, sodium, potassium, aluminum, silica acid, chlorine, iron traces, carbonic and sulphuric acids.	do	Do.
51	Cor. 7th and M sts. n. w	7½	0.95	0.020	Traces.	0.002	‡0.10	Calcium, magnesium, sodium, potassium, iron, silica, aluminum, chlorine, carbonic and sulphuric acids.	Bacteria, ciliatas	Unfit for drinking.
52	Cor. 9th and I sts. n. w	6	0.25	0.030	.10 M. G.	.18 M. G.	0.040	Calcium, magnesium, iron, potassium, chlorine, carbonic and sulphuric acids, aluminum, silica.	Bacteria, ciliatas, confervals	Do.
53	A st. bet. 3d and 4th sts. s. e.	5½	0.26	0.010	Traces.	0.10 M. G.	†0.09	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbon and sulphuric acids.	Infusoria	Usable water.
54	Cor. 6th and A sts. s. e	5	0.20	Traces.	Traces.	Traces.	†0.080	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and suiphuric acids, iron traces.	No injurious organized lives visible.	Good water.
55	E st. bet. 12th and 13th sts. s. e.	4	0.14	Traces.	Traces.	Traces.	†0.090	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
56	Cor. 17th st. and Georgia ave. s. e.	3½	0.12	Traces.	Traces.	Traces.	0.040	do	do	Do.
57	7th st. bet. M and N sts. n. w.	5½	0.20	Traces.	Traces.	Traces.	0.060	Calcium, potassium, magnesium, iron traces, silica, aluminum, chlorine, carbonic and sulphuric acids.	do	Do.

* And volatile. † Nitrite traces. ‡ Of which 0.05 nitrites.

VIII.—*Analysis of pump water in the District of Columbia*—Continued.

Number.	Location.	Degrees of hardness.	Solid residue.	Organic matter.	Free ammonia.	Albuminoid ammonia.	Nitrates and nitrites.	Mineral substances.	Microscopic examination.	Opinion.
58	7th st. bet. L and M sts. n. w.	6	0.34	Traces.	Traces.	Traces.	0.094	Calcium, magnesium, potassium, iron traces, silica, carbonic and sulphuric acids, chlorine.	No injurious organized lives visible.	Good water.
59	Cor. 4½ and E sts. s. w	6	0.40	Traces.	Traces.	Traces.	*0.040	Calcium, magnesium, potassium, iron traces, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
60	Virginia ave. bet. 2d and 3d sts. s. w.	6	0.60	0.025	Traces.	.05 M. G.	0.045	do	Infusoria, not injurious	Usable water.
61	N st. bet. 4th and 5th sts. n. w.	14	1.0	0.040	Traces.	.20 M. G.	0.24	do	Bacteria, ciliata, scolerida, turbellaria, prostomum.	Unfit for drinking.
62	Cor. 17th and K sts. n.w	4½	0.28	Traces.	Traces.	Traces.	0.090	do	No injurious organized lives visible.	Good water.
63	Cor. 14th and B sts. s. w	5	0.24	Traces.	Traces.	Traces.	0.086	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
64	Cor. 12th and C sts. s. w	6	0.32	Traces.	Traces.	Traces.	0.067	do	do	Do.
65	Cor. 11th and M sts. n. w	4	0.22	†0.10	Traces.	Traces.	0.080	do	do	Do.
66	Cor. 10th and K sts. n. w	5	0.26	†0.10	Traces.	Traces.	0.085	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	do	Do.
67	Cor. 7th and H st. n. w	5½	0.28	†0.08	0.010 M. G.	0.04 M. G.	0.094	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine 0.030, carbonic and sulphuric acids, iron traces.	Infusoria, confevacæ	Still usable.
68	Cor. 16th and K sts. n. w	6	0.28	†.04	Traces.	Traces.	0.040	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	No injurious organized lives visible.	Good water.
69	H near 4th st. n. w	10	0.60	†0.20	1.07 M. G.	0.10 M. G.	0.132	Calcium, magnesium, potassium, aluminum, silica, chlorine 0.040, carbonic and sulphuric acids.	Bacteria	Iron mineral water; unfit for drinking.
70	H near 5th st. n. w	10	0.70	†0.4	Traces.	‡0.05	0.15	Calcium, magnesium, potash, aluminum, silica, carbonic and sulphuric acids, chlorine 0.200 (excess).		This water contains an excess of nitrates and chlorine, evidence that it is in danger of pollution by sewage or filth in neighborhood; still usable.

71	Cor. 1st and I sts. n. w.....	3	0.14	†0.06	0.06	Traces.	0.040	Calcium, magnesia, potash, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water.
72	Cor. 5th and G sts. s. e.....	10	0.7	†0.28	‡0.48	‡0.08	0.25 Excess.	Calcium, magnesium, potash, aluminum, silica, carbonic and sulphuric acids, chlorine 0.220 (excess).	.....	Polluted by sewage or filth in neighborhood; unfit for drinking.
73	At Fair Grounds	10	0.740	†0.24	Traces.	Traces.	§0.060	Calcium, sulphur, iron, potassium, aluminum, silica, carbonic and sulphuric acids.	Carbonic acid in excess; sulphuretted hydrogen, 0.008; ulmine held in solution by alkalies.	No evidence to warrant this water to possess a deleterious effect on those who drink it.
74	Cor. 3d and C sts. s. w.....	9	0.82	†0.42	0.08 M. G.	0.05 M. G.	0.200	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Still usable, but in great danger of pollution; chlorine, 0.200.
75	9th st. bet. P and Q sts. n. w.	4	0.16	†0.06	Traces.	Traces.	0.072	.....do	Confervacæ rotifera	Good water; chlorine, 0.11.
76	B st. bet. 1st and 2d sts. n. w.	14	1.20	†0.50	Traces.	Traces.	0.242	.....do	.....	Still pure, but great danger of pollution; chlorine 0.210.
77	S. E. cor. 23d and M sts. n. w.	11	0.92	†0.50	Traces.	0.15 M. G.	0.250	.....do	Bacteria, ciliate rotifera, epidmeis parenchyma, and fibrovascular tissue of straw.	Unfit for drinking; polluted by sewage or filth; chlorine, 0.230.
78	I st. bet. 21st and 22d sts. n. w	8	0.34	†0.14	Traces.	0.05 M. G.	0.126	.....do	.....	Good water; chlorine, 0.090.
79	Cor. 5th and Ridge sts. n. w .	6	0.42	†0.20	Traces.	Traces.	0.122	.....do	.....	Good water; chlorine, 0.11.
80	Cor. 10th and N sts. n. w	3	0.18	†0.10	Traces.	Traces.	0.094	.....do	.....	Good water; chlorine, 0.945.
81	Cor. 5th and N sts. n. w	5	0.34	†0.16	Traces.	Traces.	0.10	Calcium, magnesium, potassium, sodium, aluminum, iron traces, silica, chlorine, carbonic and sulphuric acids.	.....	Good water; chlorine, 0.08.
82	10th st. bet. N and O sts. n. w.	3	0.19	†0.10	Traces.	Traces.	0.0808	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	Confervacæ rotifera, ciliata flagellata.	Good water; chlorine, 0.040.
83	Cor. 6th and E sts. s. w.....	12	0.8	†0.21	Traces.	Traces.	0.200	.....do	.....	Still usable, but in great danger of pollution; chlorine, 0.180.
84	F st. bet 3d and 4½ sts. s. w ..	10	0.74	†0.22	Traces.	0.02 M. G.	0.100	.....do	.....	Still usable, but in great danger of pollution; chlorine, 0.270.
85	Cor. Delaware ave. and H sts. s. w.	4	0.20	†0.05	0.25	Traces.	Traces.	Calcium, magnesium, potassium, sodium, aluminum, silica, iron, carbonic and sulphuric acids, chlorine.	.....	Good mineral water; chlorine, 0.040.

*Nitrates. †And volatile. ‡Parts per million. §No traces of chlorine.

VIII.—*Analysis of pump water in the District of Columbia*—Continued.

Number.	Location.	Degrees of hardness.	Solid residue.	Organic matter.	Free ammonia.	Albuminoid ammonia.	Nitrates and nitrites.	Mineral substances.	Microscopic examination.	Opinion.
86	Cor. 2d and F sts. s. w.....	10	0.60	*0.20	Traces.	0.29 M. G.	0.200	Calcium, magnesium, potassium, sodium, aluminum, silica, carbonic acid, chlorine, sulphuric acid.	Bacteria, ciliata rotifera.....	Unfit for drinking; chlorine, 0.260.
87	Pennsylvania ave. bet. 21st and 22d sts. n. w.	5	0.24	0.12	Traces.	Traces.	0.100	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic and sulphuric acids, chlorine.	.....	Good water; chlorine, 0.080.
88	Cor. 23d and G sts. n. w.....	7	0.32	*0.14	Slight traces.	0.04 M. G.	0.120	Calcium, magnesium, potassium, sodium, aluminum, silica, carbonic and sulphuric acids, chlorine.	Chatoforacea flagellata, ciliata rotifera.	Good water; chlorine, 0.140.
89	K st. bet. 21st and 22d sts. n. w	5	0.32	*0.12	Traces.	Traces.	0.120	.....do	.....	Good water; chlorine, 0.115.
90	K st. bet. 3d and 4½ sts. s. w..	7	0.38	*0.20	Traces.	Traces.	0.11	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids	.....	Good water; chlorine, 0.17.
91	3d st. bet. I and K sts. s. e...	17	0.91	*0.64	20 M. G.	7 M. G.	Traces.	Calcium, magnesium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	Bacteria	"Abominable;" unfit for domestic purposes; polluted by sewage; chlorine, 0.32.
92	D st. bet. 2d and 3d sts. n. w.	4	0.36	*0.15	0.40 M. G.	Traces.	0.080	Calcium, magnesium, potassium, sodium, silica, chlorine, carbonic and sulphuric acids.	.....	Good water; chlorine, 0.040.
93	Cor. 1st and O sts. n. w.....	8	0.52	*0.26	Traces.	Traces.	0.050	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water, but unfit for drinking in consequence of clay and sand running into it from the surface; chlorine, 0.40.
94	Cor. 9th st. and Rhode Island ave. n. w.	7	0.34	*0.07	0.40 M. G.	Traces.	0.040	Iron traces, calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water; chlorine, 0.1.
95	Cor. 7th and Q sts. n. w.....	7	0.32	*0.15	Traces.	Traces.	0.080	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water; chlorine, 0.09.
96	F st. bet. North Capitol and 1st sts. n. e.	5	0.64	*0.34	Traces.	Traces.	0.050	.....do	.....	Very good water; chlorine, 0.040.

97	Cor. 3d and E sts. n. w.....	7	0.40	*0.12	Traces.	Traces.	0.120	Calcium, magnesium, sodium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water; chlorine, 0.110.
98	Cor. 5th and I sts. n. w	6	0.60	*0.22	Traces.	Traces.	0.140	.....do	.....	Good water; chlorine, 0.136.
99	5th st. bet. I and K sts. n. w .	12	1.20	*0.44	Traces.	Traces.	0.236	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, chlorine, sulphuric acid.	.....	Hard water, still pure, but in danger of pollution; chlorine, 0.300.
100	F st. bet. 1st and 2d sts. n. w.	12	1.20	*0.34	Traces.	Traces.	0.236	Calcium, magnesium, potassium, sodium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Hard water, still pure, but in danger of pollution; chlorine, 0.260.
101	Cor. 5th and A sts. n. e	4	0.24	*0.08	Traces.	Traces.	0.1334	Calcium, sodium, magnesium, aluminum, silica, chlorine, carbonic and sulphuric acids.	Rotifera, ciliata	Good water; chlorine, 0.036.
102	Cor. 4th and A sts. n. e	6	0.48	*0.10	Traces.	Traces.	0.16	Calcium, magnesium, sodium, potassium, aluminum, silica, chlorine, carbonic and sulphuric acids.	.....	Good water; chlorine, 0.07.
103	Cor. 17th and M sts. n. w	4½	0.26	*0.12	Traces.	Traces.	0.133	.....do	.....	Good water; chlorine, 0.050.
104	13th st. bet. K and L sts. n. w	5	0.25	*0.08	Traces.	Traces.	0.160	.....do	.....	Good water; chlorine, 0.045.
105	Cor. 18th and H sts. n. w	7½	0.44	*0.14	Traces.	Traces.	0.300	Calcium, magnesium, sodium, potassium, aluminum, silica, carbonic acid, chlorine, sulphuric acid.	Rivularia borgana, daphnia pulin, rotifera.	Still usable, but in danger of pollution; chlorine, 0.140.

*And volatile.

FOOD INSPECTION.

The accompanying table (Table C) exhibits the condemnations of unwholesome food made during the year, and shows that the inspectors engaged in this branch of the service have been vigilant in the discharge of their duty.

TABLE C.—*Unwholesome food condemned during the year ending June* 30, 1880.

Description.	Months.												
	1879.						1880.						Total.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	
Beef.....pounds.	2,619	2,186	858	2,092	538	638	623	337	319	1,481	5,488	3,017	20,196
Veal.....do...	809	463	398	272	122	495	325	358	359	377	806	620	5,404
Mutton.....do...	139	571	196	445	471	294	246	980	158	1,790	510	624	6,424
Bacon, ham, pork, and venison.....do...	388	79	505	595	211	402	668	220	332	646	1,188	1,324	6,558
Birds, squirrels, and rabbits.....number.	.....	.....	.....	50	258	386	174	2	.....	489	8	.....	1,361
Poultry.....pounds	15	.....	.....	.....	755	1,013	420	335	275	262	84	102	3,261
Eggs.....dozen	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	.....	2
Potatoes.....bushels	41	.....	.....	4¼	.....	24	20½	12½	25½	27	22¼	104	281
Beans, pease, and onions.....do...	89¾	¾	28¼	23	.....	.....	.....	.....	.....	14	70	92½	318¼
Beets, radishes, and carrots.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Asparagus, celery, and rhubarb.....bunches.	1,590	613	226	118	22	.....	68	39	71	1,201	2,375	2,578	8,901
Cabbage and lettuce.....heads	1,587	2,197	1,717	1,533	376	152	448	793	238	822	1,494	1,804	13,181
Squashes and pumpkins.....number	26,552	2,472	680	224	.....	163	326	62	33	16	344	2,513	33,385
Corn.....dozen.	479½	731½	528	297¾	20½	.....	.....	.....	.....	.....	.....	3	2,360¼
Cucumbers.....do...	1,301¼	429	152	1,493	1½	41¾	.....	.....	.....	44½	143¼	450	2,712¼
Egg plants.....number.	191	1,141	952	1,169	153	.....	.....	.....	.....	.....	.....	.....	3,606
Tomatoes and turnips.....bushels.	23¼	85½	74	203	14½	18	25	25½	21½	20¼	.....	18	528½
Kale.....do...	.....	.....	.....	.....	.....	.....	.....	17	46¼	154	24¾	.....	233
Apples.....do...	13	30½	26½	48	6½	26	16½	16	9¾	14¾	5¼	.....	312¾
Watermelons.....number.	599	14,295	6,183	382	.....	.....	.....	.....	.....	.....	.....	.....	21,459
Canteloups.....do...	288	8,988	8,100	855	.....	.....	.....	.....	.....	.....	.....	.....	18,231
Fish, salt.....pounds.	.....	60	45	.....	469	.....	8	20	220	30	45	885	1,782
Peaches.....bushels.	1¼	752½	78	6	.....	.....	.....	.....	.....	.....	.....	.....	837¾
Berries.....quarts.	241	36	.....	32	.....	.....	.....	.....	2	.....	190	771	1,272
Bananas.....dozen.	.....	13½	.....	.....	.....	6	2	2½	12	6½	12½	.....	55
Lemons.....do...	66½	130	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	196½
Miscellaneous fruits and vegetables.....bushels.	106½	227	181¼	189	31¼	55	44¼	68¾	60¾	104¼	58	92¾	1,030¼

APPENDIX TABLE C.—*Unwholesome food condemnations for nine years ending June* 30, 1880.

Enumeration of articles.	Year.								
	1873.	1874.	1875.	1876.	1877.	1878.	1879.	1880.	Total.
Beef.....lbs	11,650	10,139	9,507	9,396	6,976	9,495	12,365	20,196	89,724
Veal .....do..	11,296	2,981	2,495	2,811	3,029	2,436	8,701	5,404	39,153
Mutton .....do..	1,335	2,316	2,029	2,135	3,068	1,926	5,438	6,424	24,671
Bacon, hams, and pork do..	3,853	7,478	4,063	7,875	3,234	5,519	5,559	6,558	44,179
Birds, rabbits, and squirrels	453	861	961	670	819	586	459	1,361	6,170
Poultry .....lbs	824	1,800	1,125	3,270	5,284	14,542	1,928	3,261	32,034
Eggs .....doz.	.....	485	2,702	2,632	3,314	4,183	118	2	13,436
Cheese and butter.....lbs	50	.....	1,559	86	150	.....	327	.....	2,172
Potatoes ....bush.	.....	167	160	350	242	124	316	281	1,640
Beans, pease, and onions, bush	172	245	705	92	128	121	170	318	1,951
Beets, radishes, and asparagus .....bunches	391	546	1,118	39	1,499	2,598	755	8,901	15,917
Cabbage and lettuce.....	4,458	10,819	9,105	15,118	3,277	5,622	5,473	13,181	67,053
Squashes and pumpkins ..	.....	88	1,415	1,075	24	66	632	33,385	36,685
Corn.....doz.	17	121	786	1,032	642	595	1,119	2,360	6,672
Cucumbers.....do..	1,976	2,966	3,690	1,624	393	296	814	2,712	14,471
Egg-plants	180	359	1,025	1,305	380	404	1,740	3,606	8,999
Tomatoes and turnips, bush	.....	154	195	82	287	158	92	528	1,496
Kale .....bbls.	.....	18	134	30	124	139	54	233	732
Rhubarb.....bunches.	.....	100	123	138	40	105	.....	.....	506
Apples .....bush.	25	138	304	193	132	119	63	312	1,286
Peaches and pears ....do..	197	149	1,098	64	532	560	.....	837	3,437
Watermelons.....	9,160	7,977	20,689	11,083	15,689	14,585	4,455	21,459	105,097
Canteloups.....	2,339	7,117	6,162	6,626	6,514	6,571	6,074	18,231	59,634
Berries..... qts.	114	2,378	750	652	1,053	538	.....	1,272	6,757
Cherries ..... do..	158	19	1,336	10,112	1,184	.....	.....	.....	12,809
Cocoanuts.....	.....	.....	513	500	.....	.....	.....	.....	1,013
Oranges and lemons	22	.....	128	206	76	.....	.....	196	628
Miscellaneous fruits and vegetables .....bush	.....	27	261	1,213	97	117	826	1,030	3,571

The only thing to deplore in connection with this service is the lack of live-stock inspection. So far as the work of inspection in the markets and provisions tores is concerned, I think our community is better protected than any other in the country.

Larger quantities of stale vegetables, fruits, &c., are condemned here than in any other city of our population. The meat-eaters, too, as well as the vegetarians, have their interests looked after; but it is before, and not after, it has reached the market stalls, that our meat supply should be examined. We have abundant evidence that many cattle are killed during the summer months that should not be, and that the sausage-makers' standard of the usefulness of meat is not a very high one.

The condemnations of other classes of food show, as a general thing, a slight increase in quantity. The tabular statement is interesting as an exhibit of the vast amount of material intended for use as food found unfit for that purpose. I understand that a couple of firms in Baltimore and Philadelphia have completed arrangements with most of our butchers to take all their refuse scraps, fat, &c., for the purpose of utilizing it in the manufacture of oleamargarine. There is no doubt that much of this material is disposed of in our cities, represented to be dairy butter, and I think the law should be so amended as to prevent the continuance of this fraud. We have a law in force here which provides that it shall only be sold as oleamargarine, and that it shall be plainly branded, &c., but in attempting to enforce this law on several parties last spring, it was found next to impossible to prove that those holding the material knew the same to be oleamargarine when offering it for sale as butter, and offenders finding that they could escape on the plea of ignorance, they were not slow in making it.

MARINE PRODUCTS.

Considerable space was devoted in my last annual report to an appeal in behalf of the Potomac fisheries and the protection of shad and herring in our river. The subject was carried before Congress, and its agitation secured the passage of a bill designed to remedy the evils resulting from overfishing of the Potomac. This law went into effect on May 30 last, and was vigorously prosecuted by the police authorities under direction of Major Brock. The good to result from it will not, of course, be apparent for some time yet, but there is no doubt that thousands upon thousands of young shad and herring were saved from destruction by preventing their capture in our waters or sale in our markets after May 30 last. The clause in this act providing for a closed season from sundown on Saturday to midnight Sunday of each week will also be productive of good in allowing the fish an opportunity to reach the higher spawning grounds during the season.

The accompanying full and complete table (Table D) gives a most satisfactory exhibit of the work accomplished in the inspection and condemnation of marine products. The receipts of shad at our wharves show a slight falling off as compared with the previous season—321,235 against 327,537, while the herring catch was nearly doubled; 6,858,839 against 3,497,259. Indeed, the number of herring taken last season far exceeds the catch of any season since inauguration of the inspection service. As an illustration of the large increase, the comparative statement appended to table D has been prepared. The duty of an inspector of marine products is both delicate and difficult in its performance. Long experience is necessary to fit a person for passing upon the condition of shell-fish especially, and one who has not studied the subject has no idea of its complications.

Mr. J. R. Sutton, who was detailed about two years since to perform this duty, has rendered valuable service and given entire satisfaction.

TABLE D.—*Inspections of marine products for the year ending June* 30, 1880.

Description.	Months.												
	1879.						1880.						
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	Total.
Shad	348	24	25	.....	.....	.....	.....	.....	5,442	184,785	123,266	7,345	321,235
Herring	520	.....	.....	.....	.....	.....	.....	.....	175,917	3,164,154	3,517,748	500	6,858,839
Tailors	33,598	45,837	68,068	45,450	200	.....	.....	.....	1,338	29,542	29,425	.....	253,458
Fish, bunches	8,380	5,917	8,641	15,472	15,623	6,978	6,731	14,824	28,608	43,181	21,056	4,145	179,556
Sturgeon	168	109	76	2	.....	.....	.....	.....	.....	52	450	237	1,094
Trout, salt water	2,950	2,950	9,690	13,125	1,750	.....	.....	.....	.....	13,630	27,060	5,186	76,341
Sheepshead	30	.....	35	81	.....	.....	.....	.....	.....	.....	121	282	549
Drumfish	.....	.....	150	10	67	.....	.....	.....	.....	.....	.....	.....	227
Oysters, bushels	1,007	1,860	5,506	51,324	56,490	56,667	65,369	56,080	37,710	24,322	3,957	1,125	361,427
Clams	191,000	190,270	8,055	.....	.....	.....	.....	47,000	87,267	198,692	310,029	269,437	1,301,750
Crabs	78,000	132,616	35,798	8,321	702	2,200	2,400	13,357	70,139	99,676	154,373	100,217	698,789
Turtles	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	31	39	85
Terrapin	.....	.....	.....	117	422	590	955	1,256	333	270	62	12	4,027
Lobsters	7	.....	.....	.....	.....	.....	.....	.....	.....	118	97	.....	222
Porgies	.....	.....	655	55	.....	.....	.....	.....	.....	.....	.....	282	992
Mackerel	200	.....	.....	.....	.....	.....	.....	.....	.....	.....	60	987	1,247
Sun-fish	.....	.....	385	.....	.....	.....	.....	.....	.....	.....	.....	.....	385
Tailors, salt water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	13,833	49,631	63,464

TABLE D.—*Condemnations of marine products for the year ending June* 30, 1880—Continued.

Description.	Months.												
	1879.						1880.						Total.
	July.	August.	September.	October.	November.	December.	January.	February.	March.	April.	May.	June.	
Shad	152	.....	.....	.....	.....	.....	.....	.....	.....	20	40	.....	212
Herring	.....	.....	.....	.....	.....	.....	.....	.....	.....	245	165, 850	.....	166, 095
Tailors	627	178	28	.....	.....	.....	.....	.....	.....	.....	650	.....	1, 473
Fish, bunches	540	310	129	470	669	55	56	74	32	758	963	502	4, 558
Sturgeon	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	2	.....	4
Trout, salt water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	600	.....	600
Sheepshead	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Drumfish	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	2
Oysters, bushels	68	85	403	5, 063	1, 140	527	1, 030	.....	20	2, 020	746	134	11, 236
Clams	11, 369	14, 033	255	.....	.....	.....	.....	.....	767	1, 292	4, 354	22, 887	54, 957
Crabs	19, 590	17, 635	7, 698	3, 021	402	.....	2, 100	157	4, 039	13, 406	28, 083	28, 517	124, 648
Turtles	15	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	15
Terrapin	.....	.....	.....	.....	.....	.....	.....	.....	.....	4	2	.....	6
Lobsters	7	.....	.....	.....	.....	.....	.....	.....	.....	118	97	.....	222
Porgies	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	12	12
Mackerel	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	25	25
Sun-fish	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Tailors, salt water	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	660	343	1, 003

APPENDIX TABLE D.—*Inspections and condemnations of marine products for nine years ending June 30, 1880.*

Years.	Inspections.								Condemnations.							
	Shad.	Herring.	Tailors.	Fish, bunches.	Sturgeon.	Oysters, bushels.	Clams.	Crabs.	Shad.	Herring.	Tailors.	Fish, bunches.	Sturgeon.	Oysters, bushels.	Clams.	Crabs.
1873	852, 900	3, 789, 800	326, 200	553, 761	496	448, 557	524, 000	336, 600	270	52, 600	.....	5, 153	.....	6, 602	5, 050	11, 990
1874	628, 637	6, 567, 240	89, 841	567, 291	919	569, 372	1, 163, 000	297, 250	149	140	158	6, 087	16	8, 648	87, 600	29, 800
1875	464, 215	1, 674, 465	56, 430	557, 203	1, 240	305, 737	1, 110, 725	446, 525	60	2, 125	.....	8, 315	18	5, 428	47, 675	64, 800
1876	319, 079	1, 488, 950	47, 500	483, 111	919	355, 437	704, 975	316, 498	54	1, 850	.....	7, 582	27	4, 759	62, 915	61, 084
1877	131, 199	2, 572, 124	5, 450	361, 749	635	295, 997	863, 470	347, 415	26	7, 024	175	6, 393	83	10, 677	43, 540	57, 800
1878	121, 785	2, 507, 500	40, 425	271, 727	1, 060	351, 317	938, 225	366, 450	.....	.....	.....	5, 211	41	15, 178	27, 950	48, 825
1879	327, 537	3, 497, 259	70, 570	219, 635	952	316, 377	1, 481, 079	584, 661	362	15, 190	1, 262	6, 193	32	17, 828	77, 512	159, 626
1880	321, 235	6, 858, 839	253, 458	179, 556	1, 094	361, 427	1, 301, 750	698, 789	212	166, 095	1, 473	4, 558	4	11, 236	54, 957	124, 648
Total	3, 166, 587	28, 956, 177	889, 874	3, 194, 033	7, 315	3, 004, 221	8, 087, 224	3, 394, 188	1, 133	245, 024	3, 068	49, 492	221	80, 356	407, 199	558, 573

THE POUND.

The work performed in this branch of the service has been up to its usual standard of usefulness. The impounding of domestic animals, while hardly within the range of duties legitimately connected with a health organization, was placed there by the law-makers who first planned the work destined for this department, and has grown to a certain degree of perfection and become closely allied with us in our progress. In preventing the running at large of domestic animals, the creation of a certain class of nuisances is obviated. Goats are not allowed to trespass upon our parks; hogs cannot make wallowing-places in gutters; and cattle are prevented from destroying the branches of our many beautiful young trees. In protecting trees and parks we are certainly contributing to the beauty, and probably, in connection therewith, to no small degree, the healthfulness, of the District. Many nuisances are no doubt prevented which would result were hogs permitted to have the freedom of our streets, and the keeping of all animals probably receives more attention than it would were there no restrictions placed upon them.

The following table shows the number and kind of animals impounded during the year, and the appendix thereto exhibits result of operations during the past nine years.

Some reduction is shown in the number of animals impounded last year, as compared with the year previous, which is accounted for by the fact that during the prevalence of small-pox last winter and spring we were forced to use the horses, wagons, and some of the men employed in this service in removing patients, disinfecting premises, &c.

TABLE E.—*Operations of the pound for the year ending June* 30, 1880.

Months.	Impounded.									Disposition.						Amount realized.
	Horses.	Cows.	Mules.	Hogs.	Sheep.	Goats.	Geese.	Dogs.	Total.	Redeemed.	Killed.	Dogs killed.	Died.	Returned.	Sold.	
July, 1879	2	26	....	....	....	3	47	.....	78	75	3	.....	....	....	....	$70 75
August, 1879	4	34	....	1	....	9	207	356	611	224	338	332	....	9	40	169 20
September, 1879	8	58	1	6	1	13	54	282	423	151	272	264	....	....	....	202 25
October, 1879	5	17	....	1	7	9	69	185	293	118	168	165	....	7	....	114 75
November, 1879	3	7	....	2	....	7	51	143	213	73	138	137	1	....	1	66 50
December, 1879	....	6	....	....	....	8	....	137	151	29	122	119	....	....	....	57 00
January, 1880	....	1	....	....	....	2	....	.....	3	1	2	.....	....	....	....	2 00
February, 1880	....	4	....	....	....	14	14	.....	32	19	8	.....	....	....	....	13 50
March, 1880	2	3	....	1	....	5	....	.....	11	7	4	.....	....	....	....	14 00
April, 1880	1	19	....	1	....	12	2	190	225	38	182	177	....	5	....	73 75
May, 1880	1	40	....	....	....	13	....	245	299	57	242	235	....	....	1	124 00
June, 1880	6	40	....	....	....	11	39	190	286	102	188	181	....	....	....	132 75
Total	32	255	1	12	8	106	483	1,728	2,625	894	1,667	1,610	1	21	42	1,040 45

APPENDIX TABLE E.—*Animals impounded during the nine years ending June* 30, 1880.

Years.	Horses.	Cows.	Mules.	Hogs.	Goats.	Sheep.	Geese.	Dogs.	Total.
1872	88	225	.....	40	152	124	210	335	1,174
1873	128	359	36	93	186	38	165	1,081	2,086
1874	60	169	22	57	129	4	64	2,200	2,705
1875	36	118	15	23	142	.....	111	2,246	2,891
1876	36	60	5	3	162	.....	93	2,309	2,668
1877	30	75	10	17	168	.....	128	2,456	2,884
1878	44	109	2	17	162	.....	119	2,828	3,081
1879	29	112	10	30	114	2	144	4,956	5,397
1880	32	255	1	12	106	8	483	1,728	2,625
Total	483	1,482	101	292	1,321	176	1,517	20,139	25,511

In accordance with direction of the Commissioners, contained in letter of July 31, 1879, the pound fees collected have been used in payment of necessary expenses, and the following statement shows receipts and disbursements for the year:

Date.	Receipts.	Amount.
July 31	Pound fees, month of July, 1879	$70 75
Aug. 31	Pound fees, month of August, 1879	183 20
Sept. 30	Pound fees, month of September, 1879	202 25
Oct. 26	Pound fees, month of October, 1879	114 75
Nov. 29	Pound fees, month of November, 1879	66 50
Dec. 24	Pound fees, month of December, 1879	57 00
Jan. 29	Pound fees, month of January, 1880	2 00
Feb. 27	Pound fees, month of February, 1880	13 50
Mar. 27	Pound fees, month of March, 1880	14 00
Apr. 30	Pound fees, month of April, 1880	73 75
May 31	Pound fees, month of May, 1880	124 00
June 30	Pound fees, month of June, 1880	132 75
	Total receipts	1, 054 45

Disbursements.

Date.	To whom paid.	For what paid.	Amount.
1879.			
July 31	Albert Fortune	Services as laborer	$12 50
July 31	Andrew Elliott	Services as laborer	21 25
July 31	John Wells	Services as laborer	17 50
July 31	W. L. Mudd	Services as laborer	12 50
Aug. 20	A. A. Wall	Fees returned	4 00
Aug. 22	E. F. Davis	Fees returned	10 00
Aug. 30	Evening Star	Advertising	1 69
Aug. 31	Albert Fortune	Services as laborer	33 75
Aug. 31	Andrew Elliott	Services as laborer	32 50
Aug. 31	John Wells	Services as laborer	32 50
Aug. 31	W. L. Mudd	Services as laborer	35 00
Sept. 30	Albert Fortune	Services as laborer	33 75
Sept. 30	Andrew Elliott	Services as laborer	33 75
Sept. 30	John Wells	Services as laborer	35 00
Sept. 30	W. L. Mudd	Services as laborer	35 00
Oct. 31	Albert Fortune	Services as laborer	32 50
Oct. 31	Andrew Elliott	Services as laborer	33 75
Oct. 31	John Wells	Services as laborer	32 50
Oct. 31	W. L. Mudd	Services as laborer	33 75
Nov. 10	Evening Star	Advertising	2 25
Nov. 30	Albert Fortune	Services as laborer	31 25
Nov. 30	Andrew Elliott	Services as laborer	32 50
Nov. 30	John Wells	Services as laborer	31 25
Nov. 30	W. L. Mudd	Services as laborer	32 50
Dec. 31	Albert Fortune	Services as laborer	13 75
Dec. 31	Andrew Elliott	Services as laborer	27 50
Dec. 31	John Wells	Services as laborer	13 75
Dec. 31	W. L. Mudd	Services as laborer	28 75
1880.			
Feb. 28	W. L. Mudd	Services as laborer	6 25
Mar. 22	N. J. Wagner	Surplus from sale of cow	6 50
Mar. 30	Andrew Elliott	Services as laborer	21 25
May 6	M. Shanklin	Services as laborer	2 50
May 26	John McDermott & Bro	Wheelwrighting, &c	21 00
May 27	E. Hamersley	Fees returned	2 00
May 29	Evening Star	Advertising	1 88
May 31	Andrew Elliott	Services as laborer	32 50
May 31	John Wells	Services as laborer	32 50
May 31	W. L. Mudd	Services as laborer	33 75
May 31	D. McKenzie	Services as laborer	38 75
June 30	D. McKensie	Services as laborer	37 50
June 30	Andrew Elliott	Services as laborer	33 75
June 30	John Wells	Services as laborer	33 75
June 30	W. L. Mudd	Services as laborer	33 75
June 30	John McDermott & Bro	Repairs, &c	20 00
		Total	1, 054 32

RECAPITULATION.

Total receipts	1, 054 45
Total expenditures	1, 054 32
Balance	13

A copy of this statement, with vouchers covering every item enumerated, is forwarded herewith.

CARE OF THE SICK POOR.

The system inaugurated in January, 1879, for providing medicines and medical attendance to the sick poor, and the supplementary work of furnishing those justly entitled and deserving with food, commenced in the February following, have progressed favorably during the year. The apppropriation for relief of the poor, from which fund payments for this service were made, fell somewhat short of the requirements, and as appropriation for the present year has been reduced one-third below that of last year, I am somewhat afraid that we will be hampered in, if not forced to entirely discontinue, this good work.

As I stated in my letter forwarding estimates of appropriations required for conducting the sanitary service, I think the service of the care of our indigent sick should be placed on its own footing and a regular annual provision be made for it independent of the other charities.

The accompanying table shows number of patients treated, classed according to color, the visits made, office consultations held, and amount expended for food and medicines:

Months.	Patients treated.	White.	Colored.	Visits made.	Office consultations.	Cost of food furnished.	Cost of medicines.
1879.							
July	941	266	675	1,106	375	$128 00	$172 45
August	956	308	648	1,113	412	185 50	126 50
September	721	209	512	891	272	154 00	131 35
October	921	342	579	1,103	364	127 00	161 10
November	693	210	483	820	236	154 50	132 15
December	709	223	486	965	244	193 25	139 50
1880.							
January	1,273	360	913	1,607	472	287 75	254 35
February	1,258	355	903	1,625	350	301 75	248 15
March	1,050	340	710	1,356	314	208 75	211 00
April	1,279	444	835	1,667	457	256 00	251 80
May	823	276	547	971	319	148 00	174 05
June	910	302	608	1,181	335	156 50	168 55
Total	11,534	3,635	7,899	14,405	4,150	2,301 00	2,170 95

Here we find that 11,534 patients have been treated by the eleven physicians, or about 1,048 each, at a cost for medicines furnished of $2,170.95; there were 14,405 visits made and 4,150 office consultations held, and the cost of food furnished foots up $2,301. Adding to the $2,170.95 for medicines and $2,301 for food the amount paid physicians, $3,630, and allowing $100 for printing, &c., we get a total expenditure of $8,201.95. I think at least $8,000 should be appropriated for this purpose.

CITY HOSPITAL.

While referring to the subject of charities, I would invite your special attention to the necessity of supplying a long-felt want by providing our cities with a general hospital. There is not another city of 180,000 inhabitants anywhere in this or any other civilized country which has not a city hospital.

We have hospitals, it is true, several of them; institutions which are a credit to the capital. They are not public hospitals, though. Some of them receive assistance from the general or local governments, and provision is made for the accommodation, under certain conditions, of a limited number of indigent sick. They are generally under the charge of some religious organization or a corporate body, and admissions can only be secured by permit from certain of the officers. We should have a general hospital with all facilities for rendering immediate assistance in cases of accident on our streets, with morgue, coroner's office, and proper ambulance service attached, and organized under such system that no person would be refused admittance and no dangerous delay could occur. The only place now provided in the way of a hospital for the sick poor of our cities is that attached to the Washington Asylum. This is a good one of the kind, but falls far short of the requirements for a city hospital on the modern plan. The Providence Hospital is a first-class institution, but it does not supply our wants. I trust you may be brought to see, as we do, the necessity for such an institution, and that Congress will be urged at the next session to provide for construction thereof.

REPORT ON OUTBREAK OF SMALL-POX.

SMALL-POX.

The history of the outbreak and progress of this disease during its latest visit is both interesting and peculiar. In the years 1872 and 1873 small-pox prevailed in epidemic form in this District. On January 16, 1872, the records show the first case to have been reported, and between that time and October 16, 1873, there were 1,749 cases recorded. During 1874 only three cases are reported to have occurred, and they in the first two months of the year. Then, for over one year entire freedom from the pest was enjoyed. On March 5, 1875, it again appeared and continued with us pretty steadily until December, 1876, fifty cases having been reported between the intervals named. During the first six months of 1877 only four cases occurred, and then the disease seems to have disappeared entirely from our midst. Between May 8, 1877, and November 28, 1879, only one case occurred, and that was in the person of a child brought here from an infected region in the Dominion of Canada. Then opens the history of the recent mysterious outbreak.

On November 28, 1879, a colored man named Jesse Williams, who had been six weeks an occupant of Providence Hospital, undergoing treatment for pulmonary consumption in an advanced stage, was reported as afflicted with what gave suspicion of being a variolous eruption. Examination proved that the suspicion was well founded, and on the day following he was removed to the small-pox hospital, where, on the 6th of the following month, he died. The closest scrutiny and most careful investigation failed to reveal any means whereby this man might have become infected with the variolous poison. He had come to the hospital from a country district in the State of Virginia, where small-pox is almost unknown. His location in the building was an isolated ward in an upper story, and not the slightest ground for any theory of communication of the infection by contact from outside could be traced. No other case had for years before nor is any known since to have occurred in the institution. So ends the history of the first case.

On the 18th of December, twelve days after Williams's death, the visiting physician to the United States jail reported Samuel Clagett, a

colored boy sixteen years of age, as afflicted with variola. This boy was at once removed to the hospital, and two days afterwards four other cases were reported at separate points in the southeastern section of the city. Now, the case occurring in the United States jail might have been attributed to infection conveyed from the small-pox hospital, which is situated a short distance east of the former institution, or from the burial place of Williams, which is in the vicinity; but the cases occurring at various points in the southeastern section of the city, far removed from the small-pox hospital, can in no way be connected therewith, and the fact of their occurring almost simultaneously with the case in the jail justifies the belief that none of the cases owe their origin to infection from the first case, or from the small-pox hospital. This belief is further confirmed by the fact that within three days after the appearance of the cases last referred to, four other cases occurred at separate points in the same section of the city. The incubatory period not being sufficient to warrant basing their origin upon contact with the cases last named, or with each other, and there being no discoverable connection between them and the first cases, the origin and spread of the disease thus far seems still to be enveloped in mystery. From this time communication by contact with those first attacked can be traced, and the persons associated with the infected ones previous to their coming to the knowledge of the health authorities form the second instalment of those afflicted. During the month of December there were fifteen cases reported, seven of which were removed to hospital, and the other eight isolated in their homes.

Up to this time we were using our best efforts toward controlling spread of the disease, but the force at command being very limited, and the course of the disease tending to convince us that more rigorous measures would be demanded, a communication was addressed to the Commissioners of the District requesting authority and means to inaugurate a more decisive campaign, and, if possible, stamp out the disease in its incipiency. In reply to this communication the Commissioners informed me that there were no funds available for conducting such service. Then the National Board of Health was called upon for assistance and responded promptly. Under date of December 29, authority was granted for the employment of a vaccine corps, for other necessary employés, and for the purchase of virus, &c. On January 1 a thorough system was inaugurated and the crusade began. Twelve vaccine physicians were employed, one resident physician placed at the hospital, one employed to examine and diagnose cases reported, and an inspector appointed to superintend the removal of cases, disinfection of premises, placing of warning signs, &c. The other employés consisted of two nurses at the hospital and four laborers in the ambulance service. An ambulance station was located at the corner of 18th and A streets, southeast, a short distance from the hospital, and connected by telephone with this department. As soon as a case was reported in any part of the city, the examining physician was immediately dispatched to the premises, and if his diagnosis sustained the report, the patient was either removed at once to the hospital or isolated in the house where found, according as the surrounding circumstances might dictate; a thorough disinfection and fumigation of premises was had, warning signs were thrown out, and if persons were not found in condition to secure proper aid and attention it was furnished them. As a result of these measures, in forty days from the inauguration of the campaign the disease was thoroughly under control, and, notwithstanding the epidemic tendency evidenced in the first place, we felt ourselves masters of the situation, and were

confident that in a very short time we would be able to rid the city entirely of the disease.

Many were found loath to go to hospital, but care was taken to ascertain that proper isolation could be effected on premises where patients were, and assurances were exacted that our instructions would be fully complied with before any were allowed to remain.

Thorough disinfection was resorted to in every case with the best of results; burning of sulphur in rooms tightly closed being the plan most approved, although chloric ether and carbolic acid were also largely used. All clothing, bedding, &c., was removed from premises where patients were taken, and either destroyed or very thoroughly disinfected and held for some time in quarantine.

The scare becoming pretty general and the public schools enforcing their regulations in regard to vaccination, the vaccine corps soon had more than they could do, many of the physicians vaccinating hundreds daily. Authority was granted to purchase 30,000 vaccine points, which number was procured and issued to the vaccine physicians, certain public institutions, and a few others who applied for them. The rush was so great at first that virus could not be procured fast enough to supply the vaccinators, but our supply was soon increased so as to equal the demand, and, finally, as we began to get the disease under control, the applicants dropped off gradually until we had very little to do.

From the 30,000 points issued we received reports of 26,204 vaccinations, and 22,034 of this number are reported as successful.

The securing of reports was found to be very difficult in the first place, and procuring results almost impossible. It was found that in the crowd and hurry wrong numbers and wrong streets had been given by children presenting themselves to the physicians, and an immense amount of labor was in many instances expended in vain search for the information desired. Some of the institutions and a good many persons who promised faithfully to make reports of vaccinations where virus was furnished them have failed entirely to do so. It was earnestly desired and hopefully expected to obtain a fund of interesting and valuable data on the subject of vaccination, but the imperfect character of many of the returns impairs very much the usefulness of the information. Still there are some facts shown which will prove of general interest. Of the 26,204 vaccinations made, 10,368 were among white and 15,836 among colored persons. Of the whites vaccinated, 3,588 were primary and 6,780 revaccinations; of the colored, 7,196 were primary and 8,640 revaccinations.

The 22,034 reported as successful vaccinations are shown to have been 8,848 white and 13,186 colored persons; among the white 3,348 were primary and 5,500 re-vaccinations; of the colored, 6,483 primary and 6,703 revaccinations. There were 2,670 reported as unsuccessful and 1,500 on which no report whatever was secured. Of those unsuccessfully vaccinated 938 were white and 1,732 colored persons, and 123 of the white and 358 of the colored were primary vaccinations. Of the total number vaccinated 6,594 were children under ten years of age. Fourteen vaccinations of persons who had been previously afflicted with variola or varioloid were made, and eight of the number proved successful. Two persons vaccinated on the third day after being taken with the disease yielded to the influence of the virus, and as a result experienced only a mild form of varioloid.

Efforts to stamp out small-pox prevailing in endemic and threatening to assume epidemic form were never more successfully carried out, and it is with the utmost gratification that we point to the result accomplished.

In 1872–'73 this scourge cost the District the lives of 629 of its inhabitants, and over $30,000 was spent in effecting its suppression. In the last instance, with an outbreak more formidable in its incipiency, but 76 cases occurred and only 19 deaths resulted.

The following table shows total deaths occurring from December 6, 1879, to May 5, 1880, by sex and color, with percentages, annual death rate, ages of decedents, where died, and nativities:

Sex and color.	Total deaths.	Percentage to total mortality.	Annual death-rate per 1,000.	Ages of decedents.												Where died.		Nativities.		
				Under 1 year.	1 to 2 years.	2 to 3 years.	3 to 4 years.	4 to 5 years.	Total under 5 years.	5 to 10 years.	10 to 20 years.	20 to 30 years.	30 to 40 years.	50 to 60 years.	70 to 80 years.	In hospital.	Out of hospital.	District of Columbia.	Virginia.	Maryland.
White males	1	.0009			1				1								1	1		
White females	5	.005		2				1	3		1			1		1	4	4		1
Total white	6	.0029	.05	2	1			1	4		1			1		1	5	5		1
Colored males	7	.0068			1	2			3	1		1	1		1	3	4	5	1	1
Colored females	6	.0055				1	1	1	3	2			1			5	1	5	1	
Total colored	13	.0061	.22		1	3	1	1	6	3		1	2		1	8	5	10	2	1
Grand total	19	.0045	.106	2	2	3	1	2	10	3	1	1	2	1	1	9	10	15	2	2

Is it not truly gratifying to contemplate these facts? In 1872 there were 1,749 persons who suffered from this loathsome disease, of whom 1,117 recovered. Aside from the expenditure found necessary to suppress it, think of the misery entailed upon hundreds of families, the permanent injury to many recovering, and the untold injury to business interests, resulting from prevalence of the disease. We certainly have every reason to congratulate ourselves and the people of the District on the result of our labor.

In conclusion I would invite the earnest attention of the Commissioners to the necessity of providing a more commodious hospital for contagious diseases, placed at some more approved point, and the urgent need of instituting regular periods for vaccination of our people. "In time of peace prepare for war," is an old valued adage, the worth of whose advice has been evidenced from time immemoral. Throw out the safeguards or the next onslaught may not be so readily repulsed.

REPORT OF A SANITARY SURVEY OF THE DISTRICT OF COLUMBIA.

LOCATION, POPULATION, CLIMATE, AND TOPOGRAPHY.

The District of Columbia, as originally ceded to the United States by the States of Virginia and Maryland, contained ten miles square or one hundred square miles. By act of Congress of July 9, 1846, Alexandria, town and county, was retroceded, leaving the area of the District about sixty square miles. It is situated in north latitude 38° 51′ 20″, longitude west from Greenwich 77° 0′ 15″, and is bounded by Maryland on the east, north, and west, and by the Potomac River and Virginia on the south. The city of Washington was founded in March, 1791, and incorporated May 3, 1802. The population of the District in 1860 was 61,122; in 1870 it was 109,199; and the census of 1880 shows its present population to be 177,638 souls—118,236 white and 59,402 colored; 83,594 males; 94,044 females; 160,527 native and 17,111 foreign born.

The present estimated population under five years of age is 25,101—16,019 white and 9,082 colored.

Meteorological observations have been regularly recorded in the District for more than sixty years, originally at the War Department; from 1828 to 1842 by J. M. Gilliss at the Smithsonian Institution, and since 1845 by the United States Naval Observatory. In "Washington Astronomical and Meteorological Observations, 1866;" "Appendix I, Meteorological Observations at the United States Naval Observatory, from June 30, 1842, to January 1, 1867," by J. R. Eastman; tabulated statements covering mean, maximum, and minimum temperature of each month; direction and velocity of prevailing winds in each month; amount of rainfall; mean, maximum, and minimum height of barometer in each month; records of relative and absolute humidity; electricity; ozone; number of clear and cloudy days, &c., will be found.

The city is amphitheatrically surrounded by a range of hills, varying in height from 75 to 300 feet above tide-water. Confined to the immediate river banks on the south and east are marshes of considerable extent, subject to overflow of the tides, and upon which rank vegetation flourishes. These marshes are in close proximity to the city, and are a fruitful source of miasma. Their nature and extent are too well known to need description here. The city is surrounded by forests, grass-lands, cultivated farms, and market gardens. The site of the city is undulating, with a general surface slope to the south. Its original conformation has been materially changed by grading and filling of streets and lots. The original water courses have not been diverted, but one or two of the minor streams have been covered or modified. The highest elevation above sea-level is 124.34 feet; the lowest 5.65, and the average 50.

There is no considerable area of what is known as made land in the District. The streams passing by or near the cities are the Potomac, Eastern Branch or Anacostia River, Rock and Tiber Creeks, all of which are affected by the rise and fall of the tides. The sides of these streams are usually sloping, the ground alluvial.

The only canal entering the District is the Chesapeake and Ohio, which passes through the southern portion of Georgetown. It is supplied from the Potomac River, and its water is usually clear; surface drainage and sewage enters all the streams named, and the sewage carried back by the tides is deposited and remains upon the flats or marshes on the north shore of the Potomac fronting the city. The geological formation of the site and vicinity belong to the Laurentian system, the surface rocks gneiss, and the underlying strata loam, sand, gravel, and clay, in the order of succession given.

The surface soil is clay, sand, or gravel, and when generally upturned malarial influences have been observed. No diseases considered due to soil or geological formation have been noted, nor has the spread of any epidemic followed the direction of the flow of underground water.

WATER SUPPLY.

The water supply is derived from the Potomac River. The banks of the stream are but sparsely populated above the point at which the water is taken, and the immediate gathering ground is but little fertilized; by far the larger portion being unimproved and uncultivated, generally woodland. The water is brought a distance of 60,922 feet from the head of the aqueduct to the distributing reservoir, and thence a further distance of 25,500 feet to the capital. The conduit used is circular in section, 9 feet in diameter, and has a maximum capacity of 67,259,800

gallons in twenty-four hours. The water is first received from the conduit into a receiving or settling reservoir, thence discharged into the distributing reservoir, and therefrom taken by the mains. No process of filtration is used. The average amount of water flowing into the reservoirs per diem is 26,000,000 gallons; their highest capacity for storage, 312,000,000 gallons. According to analysis of 1875, in 171 gallons of water there is chlorine 30 grains, ammonia 0.10, albuminoid ammonia 0.62. The water was quite offensive at times during 1875–'76, and the subject was widely discussed, but the positive cause was not ascertained. The District has 20 public fountains, 400 hydrants, and 800 fire-plugs. We have no artesian wells, and the use of shallow-well and spring water is limited to from 300 to 400 families, the number being gradually diminished as the water service is extended. No well authenticated cases of lead poisoning from use of lead pipes are known. There are no public baths in either of the cities.

DRAINAGE AND SEWERAGE.

The area included within the city limits is 6,110.94 acres, about three-fourths of which is "built up," as compared with what might be called "country suburban area." The drainage for about two-thirds of this area is what might be classed as very good, the remainder fair. There are no underground drains constructed to act exclusively as such, although there are areas of made land which demand and would be greatly benefited by such drains. Notably the "Slash Run Valley," from Sixteenth street to Rock Creek; that portion of the city between Fourteenth and Seventeenth, R and Boundary streets northwest; and the "Tiber Sewer Valley." The cellars in that portion of the city lying along the lower levels of Pennsylvania avenue, between First and Fourteenth streets, are subject to overflow during heavy storms, and also to reflow from the sewers. The cities have a regular system of sewerage. There are six large outlet sewers discharging into the Potomac and Anacostia Rivers on the south and east, and Rock Creek on the west. They are circular and D section in shape, and range in diameter from 4 to 22 feet, the circular and the arch from 9 to 30 feet span; they are constructed of brick and stone masonry and tightly cemented. The "Tiber" and "B street" sewers retain slight deposits, which are removed by laborers kept constantly employed for that purpose. About one-half of the city area, nearly the whole of which is built upon, still requires small laterals. The total length of subsidiary sewers, discharging into the large outlet sewers, is not known. They are generally circular in shape, from 12 to 30 inch tile, and from 2 to 8 feet brick.

The surface drainage is mainly received by the sewers; their capacity is not sufficient during heavy storms, but they will be much relieved upon completion of the auxiliary sewers now in course of construction. No attempt has ever been made to utilize the sewage. The only means of ventilation used is the perforation of the covers of man-holes. Offensive odors are perceptible at many of the openings. It is required by law that all premises bordering on a public sewer shall be connected therewith, and shall drain all slop-water, water-closets, &c., therein whenever the health department shall determine the necessity therefor.

STREETS AND PUBLIC GROUNDS.

The width of streets and avenues range from 30 to 120 feet; the average width of avenues being 50 feet; that of streets 40 feet. The side-

walks range in width from 6 to 30 feet, averaging about 12 feet, with a park or grass plat averaging 15 feet in width between sidewalk and building line. Over 90 per cent. of the sidewalks are paved with brick; the balance with asphaltum, coal-tar composition, artificial stone, blue stone, flagging, &c. No material difference in healthfulness of streets owing to direction has been noted; those houses facing south, on streets running east and west, are however generally preferred as residences. The total length of streets paved is 101 miles; 37 miles of coal-tar and asphaltum; 24 miles wood; 20 miles cobble-stone; 13 miles cut stone, and 7 miles macadam. The total length of streets unpaved is 115 miles, of which 23 miles is good gravel roadway. The character of the soil is usually red clay and gravel, with a small amount of alluvial covering and washings from the hills of granite. The streets are not unduly wet in spring. The wood and stone pavements are constructed on natural soil, with about 6 inches of gravel and sand; the asphalt pavements on a concrete base 6 inches in thickness, the pavement proper having a thickness of 2½ inches.

On the 1st of July, 1880, there existed 493,020 square yards, or 20.74 miles, of wooden pavements; 425,135 square yards, or 20.44 miles, of stone (cobble stones or cut blocks); 956,539 square yards, or 37.75 miles, of asphalt and concrete; 193,527 square yards, or 7.64 miles, of macadam; and 652,887 square yards, or 29.17 miles, of gravel roadway. The arrangements for cleaning are by sprinkling and machine sweeping. This work is done by contract; 100,000,000 square yards required to be cleaned yearly, the streets being swept by schedule daily, weekly, or monthly, arranged as to frequency of cleaning according to amount of travel over them. The work is performed in a most satisfactory manner. Shade trees are planted along all the streets with the exception of a very few devoted entirely to business, and obstructed by awnings, &c.; they are usually planted in two rows, one on each curb, and sometimes two additional rows are placed on inner line of sidewalk. Sixty thousand trees have been planted in the District since 1871; all done under the able direction of a parking commission composed of experts in arboriculture. The trees comprise in variety poplars, elms, lindens, buttonwood, tulip trees, &c. This parking being exclusive of that on public grounds and government reservations. The asphalt pavement is said to be injurious to trees if the opening around trunk on surface is too small. If opening is large enough, say 6 by 2½ feet, no injury results. Gas leakage has injured many trees. The ailantus tree, when in bloom, has been declared injurious to health; no injury has been found to result from other varieties. The trees are cared for by the city government under direction of the parking commission. There are 100 public reservations in the District, 96 of which are the property of the United States Government, and under control and cared for by the Superintendent of Public Buildings and Grounds, an officer under the Chief of Engineers, United States Army. All the public parks and squares are kept in excellent condition. The aggregate area of all the reservations and public grounds is about 350 acres, varying from 500 square feet to 60 acres each. There are 17 public fountains, exclusive of drinking fountains, in the parks, and 8 public urinals. No areas are specially set apart for play grounds or other sources of amusements; walks, seats, &c., are provided. There are no fixed regulations relating to their care and management.

Great care is exercised at all railroad crossings in the city, and accidents seldom occur. The getting on or off of front of street cars is not allowed.

HABITATIONS.

There are 26,910 houses in the District, 25,656 of which are within the limits of the two cities. Of this number 13,450 are brick structures, 11,588 good frames, and the remainder what might be classed as "shanties." The average occupancy of each dwelling is a little over six persons. There are very few of what are usually classed as tenement houses in the District, and cases of over-crowding are very rare. There are no municipal regulations relative to over population. The building regulations govern the material of and manner in which houses shall be constructed, and they are strictly enforced. There were 41 houses condemned as unsafe last year, and 139 as unfit for habitation, for sanitary reasons. About one-third of the houses have sewer connection; pipe drains with traps. No houses with special arrangements for ventilation are known. The cellars and basements of houses on the lower levels of the city are defective in drainage and subject to reflow from the sewers; cellars are used to a considerable extent for storing fuel, &c., but no disease has been known to result from their condition.

GAS AND LIGHTING.

The cities are lighted by gas, the works being situated in a sparsely populated section on the extreme western limit, and near the river bank, foot of Twenty-sixth and G streets. The gas mains are extended pretty generally over the entire area of the cities, but few streets being without lamps. Very few of the alleys are lighted by gas. In purification the hydrate of lime and water process is satisfactorily used. The refuse from the gas works is utilized in various ways; the coke used for fuel, the ammoniacal liquor in the manufacture of sulphate of ammonia, and the spent lime for fertilizing purposes. The gas is furnished to consumers at $2.25 per 1,000 cubic feet. The quality has to conform in power and purity to the requirements of an act of Congress governing the subject. The average illuminating power of the gas furnished last year was 16.60 candles; average quantity of ammonia in each 100 cubic feet of gas, 4.47 grains; average quantity of sulphur in each 100 cubic feet, 15.35 grains.

Probably eight-tenths of the dwellings are lighted by gas; the exact proportion is not known. No provision is made for the inspection of illuminating oils, or restrictions placed upon the sale of burning fluids. The number of accidents resulting from explosions of burning fluids during the last five years is not known, though they have been numerous. Only one accident from explosion of gas has become generally known.

GARBAGE AND EXCRETA.

There is no law generally enforced concerning the above-named subject. The authorities contract with certain parties for the removal of garbage, defining garbage to be refuse animal and vegetable matter, and require same to be removed in close covered receptacles from all dwellings three times weekly, between the 1st day of May and the 1st day of November in each year, and twice weekly during the other months. There is no provision made for removal of ashes at the public expense. Garbage is removed to a point on the Potomac River 15 miles below the city, and there utilized in the manufacture of fertilizers. The system of removal and disposal is comparatively satisfactorily, but the work has recently *been very poorly performed.* The cost to city last year

for removal of garbage and transportation of offals was $10,355, and it is estimated that at least $20,000 was expended by private individuals for removal of ashes and other refuse. The dead animals are collected and removed by the same contractor who collects and removes garbage. They are taken to the same place of final deposit and there skinned and worked up, their fat, bones, hoofs, &c., being utilized in various ways. The number of dead animals removed from the district last year was 4,338.

The receptacles generally in use in the District for reception of fœcal matter are what are known as privy boxes; close wooden water-tight receptacles, 3 feet long, 18 inches wide, and 18 inches deep, placed on or above the surface of the ground. Neither cesspools, vaults, nor flush tanks are used, except in very rare cases. About 15,200 houses have the privy boxes, the rest being supplied with water-closets, all the latter discharging directly into the public sewers. The regulations require that privy boxes shall be made according to the dimensions above given and must be emptied when full. The system of removal is by the pneumatic pump or odorless system of the Odorless Excavating Apparatus Company, and the receptacles used in receiving and transporting the material are close barrels of such size as to each receive the contents of one regulation-sized box. No cases of contamination of water in wells by drainage from privies has come to our notice. Night-soil is removed to the same point as the garbage and dead animals, and there utilized; this service being generally performed in a satisfactory manner.

MARKETS.

There are eight public markets in the District—two in the city of Georgetown and six in Washington. The largest is the Washington Market, situated between Seventh and Ninth, Pennsylvania avenue, and B streets, N. W. The retail market building covers 60,175 square feet of ground, and is a one-story brick structure. It has also a wholesale market connected with it, a two-story brick building 270 by 36 feet. The retail market contains 666 stalls; 192 fo rbutchers, 72 for butter and cheese mongers, 30 fish stalls, 36 bacon stalls, and 336 used for miscellaneous purposes. The buildings cost $350,000, and the average monthly rental of stalls is $8.35. The market is open daily, except Sunday, from 4 o'clock a. m. to 1 o'clock p. m., and is owned by a private company.

The Northern Liberty Market, next in size, is situated on the corner of Fifth and K streets, N. W. It is a one-story arched-roof brick structure, covering 41,600 square feet of ground, and containing 284 stalls, distributed as follows: 104 butcher stalls, 16 bacon stalls, 10 fish stalls, 104 vegetable stalls, and 50 used for miscellaneous purposes. This structure, owned and managed by a private company, cost $152,000, and the average monthly rental of stalls is $5.90.

The Riggs Market, another private institution, is situated on P street, between Fourteenth and Fifteenth streets, N. W., and is a one-story frame structure 130 feet long by 70 feet wide. It contains 60 stalls; 20 for butchers, 4 for fish, and 36 for vegetables and miscellaneous purposes. The building cost $5,000, and the average monthly rental of stalls is $4.33\frac{1}{3}$; market days, Tuesdays, Thursdays, and Saturdays, from 4 a. m. to 1 p. m.

The Corcoran Market is a low frame structure, or rather collection of old sheds belonging to the District, and located on O, near Seventh street, N. W. It contains 187 stalls; 25 butcher, 27 bacon, 70 vegeta-

ble, 9 butter and cheese, 14 fish, and 42 used for miscellaneous purposes. The average monthly rental is $3.56 each. The market days are Mondays, Wednesdays, and Fridays; also Saturday nights.

The Western Market is owned by the District, and located on the southeast corner of Twenty-first and K streets, N. W. It is a one-story brick structure —— feet long by —— feet wide, and cost ———. It contains 105 stalls; 38 for butchers, 6 butter and cheese, 5 fish, 4 bacon, 31 vegetable, and 21 used for miscellaneous purposes. The market days are Mondays, Tuesdays, and Fridays, from 4 o'clock a. m. to 1 o'clock p. m., and also Saturday nights. The average rent of stalls is $3.63.

The Butchers' Market, situated on High between First and Second streets, Georgetown, is a one-story brick structure 80 by 60 feet, owned by a private company, and cost $5,000. It contains 48 stalls, of which number 16 are for butchers, 4 butter and cheese, 15 vegetable, 8 bacon, and 5 miscellaneous. The average monthly rental is $3.80. Market open every day.

The Georgetown Market is situated on Bridge street, fronting Market. It is a one-story brick structure, 36 by 240 feet, owned by the District, and containing 75 stalls—28 butcher, 8 bacon, 24 huckster, 11 butter, and 4 fish. The average monthly rental is $1.92 each. Building cost $60,000.

The Eastern Market, situated at the corner of Seventh and C streets southeast, is a one-story brick structure, 205 by 47 feet, covering 75,774 square feet of ground, and cost—ground and building—$90,000. It contains 85 stalls—20 for butchers, 8 butter and cheese, 5 fish, 39 vegetable, 6 bacon, and 7 miscellaneous. The market days are Mondays, Wednesdays, and Fridays, from 4 a. m. to 1 p. m., and also Saturday nights; the average monthly rental per stall being $3.75.

There are two food inspectors appointed, at a salary of $1,200 per annum each, and two privates of police detailed to act in conjunction with these officers. It is the duty of each inspector of food to attend the market or markets within his inspection district every morning, at the time when sales commence, and carefully inspect all meats, fowl, game, and vegetables offered for sale, and condemn, seize, and cause to be removed such as may be diseased, or from any other cause rendered unfit for food. Also to visit, as early as practicable each day, every green-grocery or other place within the District where articles of food are kept for sale, and perform his duty of inspection, condemnation, seizure, and removal, as hereinbefore prescribed. He reports his official proceedings daily to the health officer, and in the performance of his duties is under the direction of said officer.

The meat supply is very satisfactory as to quality. There was condemned by the food inspectors during the year ending June 30, 1879, 12,365 pounds beef; 8,706 pounds veal; 5,438 pounds mutton; 5,599 pounds bacon, ham, and pork; 1,928 pounds poultry; 118 dozen eggs; 4,455 watermelons; 6,074 cantaloups; and about 2,500 bushels miscellaneous fruit and vegetables. Most of the meats and vegetables are obtained from the immediate vicinity of the cities; a large number of fowls, calves, and sheep are brought to market and sold; about one-third of the poultry is sold alive. The supply of vegetables is very satisfactory, three-fourths or four-fifths coming from the immediate vicinity of the city. Hucksters and hawkers are required to obtain license, but there are no municipal regulations governing their action. Proper facilities are not afforded the producers, but all of them, as a rule, sell direct from their wagons or from vicinity of market to the consumers.

SLAUGHTER-HOUSES, &C.

The animals slaughtered for our markets are obtained from Virginia, West Virginia, Maryland, Ohio, and sometimes from the States further west. There are from 18,000 to 20,000 cattle and from 30,000 to 35,000 sheep slaughtered annually in the District. A majority of these animals are driven to our drove-yards from adjoining States; some few, however, come by rail. The system of washing before slaughter is not pursued.

The effect of terror in animals has been observed to make the flesh what is termed by the butchers "fiery"—that is, of a dark reddish color—caused by the retention of blood in the minor vesicles. Meat of this kind will decompose more rapidly than other meat, but no instance of injury to health resulting from its use as food has come to our knowledge. Depriving animals of food for 24 or 48 hours previous to slaughter seems to have no perceptible effect upon their flesh. The usual mode of killing is by cutting the throat.

We have no abattoirs; the business of slaughtering is conducted in small slaughter-houses scattered throughout the suburbs of the two cities and the county adjacent.

MANUFACTURES AND TRADES.

Neither Washington or Georgetown can lay any claim to rank as manufacturing cities. There are several factories, on a small scale, in Washington—soap factories, asphalt rendering establishments, and a sulphate of ammonia factory—which generate offensive odors, and which have called for action from the health authorities.

The manufacture of paper money by the government, and the general printing-office are more in the nature of factories than anything else in the District, and a special report upon their condition will be found in the report of the health officer for 1879.

POLICE AND PRISONS.

The police force of the District is organized under a law of Congress, and numbers 238 officers and privates. The health officer is authorized by law to call upon any number of officers to do sanitary duty for a period of not longer than 24 hours at any one time. One-half of the force is always on duty at night. There are eleven lockups or station-houses for the confinement of prisoners, and the average daily occupancy of each is four persons. The minimum air-space for prisoners is 70 cubic feet each. Both sexes are confined in the same institution, but not in the same cell. Cells are ventilated by means of air-ducts, and each has a water-closet properly connected with sewer. No bathing facilities are afforded.

The United States Jail and the City Work-house are the only two prisons in the District.

FIRE ESTABLISHMENTS.

The fire department of the District was organized under act of the common council of April 25, 1864, which provided for a board of fire commissioners to consist of four persons; the mayor, also, being made a member ex-officio. (The law covering the entire subject will be found on p. 139, Webb's Digest, laws, &c.)

The storage in large quantities of any kind of combustible material is prohibited in the thickly built portions of Washington and Georgetown, and it is not lawful to erect, construct, enlarge, or remove any wooden building within what are known as the fire limits, comprising all the city of Washington and all that portion of Georgetown lying south of Eighth and Road streets. No inspection of illuminating oils is provided for.

The department is a paid one, no voluntary service whatever being performed. The apparatus consists of eight steam fire-engines (six in service and two extra), with same number of hose-carriages, and two hook-and-ladder trucks. No floating engines or steamers with special fire-pumps are used. The water supply for fire purposes is taken from the mains supplied by the Washington aqueduct and is abundant; the distribution however being somewhat faulty. Fire extinguishers are not used. The annual expense of conducting the fire department is $100,000. The total number of persons employed being 93 officers and men. The firemen are on duty continuously, being allowed one hour for meals, separately. They are berthed in single cot beds in the engine-houses, their quarters being both comfortable and attractive. The records show about 1 per cent. of sick days among the men, about one-half of 1 per cent. of accidents in line of duty, and but one death in line of duty during five years. There is no medical man attached to the fire department and no insurance patrol for discovering fires and saving property. The loss of property from fire during the past year amounted to $80,000. About 15 per cent. of the fires occurred from the use of dangerous or unfit lighting fluids, 55 per cent. from carelessness, such as defective construction, smoking, matches, fireworks, &c.; 5 per cent. from spontaneous combustion, and 25 per cent. from supposed incendiary causes.

The "Gamewell system" of fire-alarm telegraph is in use, the proportion of alarm boxes being one to each ten squares. The system works admirably. There is no ambulance provided by the department for conveying wounded and sick to hospital.

MUNICIPAL SANITARY EXPENSES.

The total amount of money appropriated for sanitary purposes, classing all the following items under that head, for the year ending June 30, 1880, was $675,105. For sewerage, $115,000; for paving, parking, and repair of streets, $463,300; for street cleaning, $120,000; for removal of garbage, $10,355; for removal of night-soil (expended by individuals), $24,000; for care of public markets, $9,450; for expenses of health department, $24,400.

Total municipal expenses, $3,264,197.56.

GENERAL REMARKS.

In compiling the information contained in the foregoing survey, I have endeavored to be as brief as possible and have condensed the statements as far as consistent, without leaving out anything of value. Every subject could easily be elaborated to a great extent, but as data of this character is usually used only for reference by persons engaged in compiling statistics, it was deemed best to confine the report within narrow limits and not collate laws and regulations and authorities which would stagger the student or inquirer, searching information of the kind given. The laws of the district bearing upon the different subjects are distri-

buted in many volumes, and as these have all been collated in a volume entitled the "Municipal Code," which is now before Congress, with a prospect of its passage at the coming session, it was not deemed advisable to make reference thereto herein.

I am much indebted to Lieuts. F. V. Greene and R. L. Hoxie, U. S. A., assistants to Engineer Commissioner Twining, to Col. Thos. L. Casey, Superintendent of Public Buildings and Grounds, Mr. Ford, Inspector of Gas Meters, Superintendent of Police Brock, and the members of the fire board, for information and assistance.

I regret very much that data relative to public schools and school buildings could not be obtained, but I was informed by Superintendent Wilson that he had no means of furnishing same, and the time and force at my command would not warrant an attempt at proper performance of the work. The survey is therefore incomplete in that particular as it is in certain data relative to police and prisons.

The laws relating to the public health will be found in another part of this report, and data relative to mortality from zymotic diseases, under the head of "vital statistics."

REPORT OF MEDICAL SANITARY INSPECTOR.

SIR: I have the honor to present the following report, showing the nature and extent of my work as medical sanitary inspector for the year ending June 30, 1880:

Investigations made.	Diseases.			
	Scarlet fever.	Diphtheria.	Typhoid fever.	Total.
Quarter ending September 30, 1879	5	1	28	34
Quarter ending December 31, 1879	8	9	16	33
Quarter ending March 31, 1880	6	8	10	24
Quarter ending June 30, 1880	2	6	10	18
Total for the year	21	24	64	109
CONDITION OF PREMISES.				
Sanitary	16	17	45	78
Unsanitary	5	7	19	31
Disposition of fœcal matter:				
Water-closets	14	10	27	51
Box in yard	7	14	37	58
Water used:				
Potomac	18	20	43	81
Well	3	4	20	27
Spring	.....	.....	1	1
Sporadic and unknown	8	15	42	65
Dampness of house	1	1	2	4
Unsanitary surroundings	.....	3	8	11
Foreign infection	.....	1	6	7
Contagion	10	1	.....	11
Contagion by school	2	.....	.....	2
Sewer-gas	.....	2	5	7
Filth	.....	1	1	2
LOCATION.				
Northwest	16	13	36	65
Southwest	1	4	11	16
Northeast	3	2	11	16
Southeast	1	3	2	6
Georgetown	.....	2	4	6

Investigations as to local causes of disease have been made in 21 cases of scarlet fever, 24 cases of diphtheria, and 64 cases of typhoid

fever, making a total of 109 investigations, being 78 less than last year. From these diseases there have been a total of 141 deaths, being but one-half the number occurring from the same diseases last year.

The foregoing tabulated statement shows the number of investigations by quarterly periods, condition of premises, &c. There were 6 cases of typhoid fever and 1 of diphtheria investigated that were brought here sick with the disease of which they died; there were also several others dying of these diseases that the certifying physicians notified the office were brought to this city sick. In these cases no investigations were made.

Besides the facts set forth in the above statement, the following items, brought out in the investigations, may not be without interest:

Dwellings condemned as unfit for human habitation	6
Number of cases of bad plumbing and drainage	17
Number of privies condemned	5
Number of alleys recommended to be sewered	1
Number of squares recommended to be sewered	1
Number of alleys found filthy	4
Number of stables condemned on account of filth	2
Number of foul gutters	2
Number cases of scarlet fever in rented houses	12
Number cases of diphtheria in rented houses	15
Number cases of typhoid fever in rented houses	42
Number cases diphtheria among very poor	4
Number cases typhoid fever among very poor	18

There were no cases of death from scarlet fever in Georgetown during the last year; but 2 cases of diphtheria and 4 of typhoid fever.

In the county there were 2 each of scarlet fever and diphtheria west of the Eastern Branch, and none east of it. Of typhoid fever there were 9 cases in the county 8 west and 1 east of Eastern Branch, and 8 cases in the hospitals.

The healthfulness of the District for the past year has been very satisfactory when compared with preceding years; this is owing, undoubtedly, in a great measure, to improved sanitary condition, in its clean streets and alleys, increased and better sewerage, and the increase and diffusion among the people of a knowledge of improved sanitation, and a desire on their part to better their condition and surroundings in this regard. Whether the meteorological conditions may or may not have had an influence in this same direction cannot at the present time be satisfactorily stated.

In examining the location of the diseases investigated we perceive that the northwestern part of the city is charged with a very large proportion of them; and a very large part of these are found north of L street and Massachusetts avenue; also a large proportion of all the deaths from diarrheal diseases occur in this portion of the city of Washington. In South Washington, or more particularly that part known as Southwest Washington, and also called the "Island," diarrheal diseases are quite prevalent, and also east and southeast of the Capitol. The map published with the last report of this office, showing the location of five different zymotic diseases, shows the same general distribution of these diseases.

The map published with your annual report for this year, showing the location of deaths from phthisis and acute diseases of the respiratory organs, also points to the localities above mentioned as being for some reason in a less satisfactory sanitary condition than others. In examining the map published with the last annual report, giving the location of deaths from these diseases, the same localities are found to be thickly studded with the blue and red dots. A change for the better is, however,

found in squares bounded by L and M and Fifteenth streets to Rock Creek. These squares, up to about eighteen months ago, were almost undrained, and much of the ground is what is called "made ground"; water in great ponds stood on some portions of nearly all the squares after every rain, until evaporation or earth absorption disposed of it. Many of the houses were, and some still are, below grade, and have a mildewed or musty smell. As might be expected, a large number of deaths occur here; but since the houses are being put on higher and better foundation, better drainage established, and the ponds, caused by filling streets, have been filled, a marked falling off of the number of deaths here has taken place; and more especially from phthisis and acute respiratory diseases.

In South Washington we find phthisis and acute respiratory diseases west of First street west and Delaware avenue to Sixth street, and also between C and E streets. We find, however, if we compare last year's map of these diseases with this year's a decided improvement has taken place. Throughout this part of the city there is very little or no good sewer drainage, and more especially of the section first indicated. The drainage is surface, and not even good of that kind. Many of the gutters do not carry away the storm, slop, or waste water, and it is left to evaporate or find its way into the soil. The consequence is there is soil saturation, many of the dwellings are damp, and as a direct effect a large death rate from phthisis and respiratory diseases, as well as from the diarrhœal. The improvement observed here in there being a less number of deaths than last year may in part be owing to the fact that there has been less storm-water for the last year or eighteen months than previously, and consequently one prime source of soil saturation has been absent.

Another matter to be taken into consideration as regards South Washington, is the condition of the river front. This part of the city lies wedge-shaped between the Potomac and its eastern branch, receiving the foul odors that rise from the flats and marshes along the borders of both. The maps published showing the locations of deaths unmistakably point to that part of South Washington bounded by B street south on the north, Ninth street on the east, and the river front on the southwest as being in an unsanitary condition. During the year ending June 30, 1879, scarlet fever, diphtheria, and typhoid fever were rife here, and although this year's map does not show so many deaths from these causes, yet consumption and the acute diseases of the respiratory organs were more prevalent. This part of the river front is not only low and marshy, but a short distance above the large sewer of Seventeenth street empties into the river but a short distance from the shore, and consequently much of its contents was mingled with the shore currents of the river, becoming entangled in the rank herbage of the flats, and, there fermenting, filled the air with the most loathsome odors. Since the improvement in this sewer, which consisted in carrying a canal to deep water (this canal was constructed during the winter of 1880), but little complaint is heard from this cause, and one result is a decided falling off of deaths from some of the zymotic diseases in this locality. The sewage now finds its way to the current of the channel of the river, where it rapidly oxidizes and disappears. Herein is contained a valuable hint to the sanitary engineer. As regards that portion of the northwestern section of the city lying north of L street and Massachusetts avenue, it must be remembered that it was up to about 1850 to some extent covered with water, and many of the citizens of Washington remember of its being a hunting ground for woodcocks, and in winter was covered with ice and used as a skating rink.

In examining the map showing the total number of deaths from all causes on every square in the city of Washington, and turning to the locations that have been referred to above, we readily see that they exhibit at least a suspicion of their sanitary condition. As no other map of this kind (showing mortality from all causes) has been prepared for any previous year, we are unable to compare this year's map with any other.

I do not wish to be understood as claiming that the evidence furnished by the mortality of one year is sufficient to condemn any one particular section, but, from the partial investigations that I have had time to make of some of these localities, and the information I am able to get from the engineer's department, I am satisfied that the portions and squares of this city where occur the larger number of deaths are not above suspicion as to soil saturation as a positive factor, and overcrowding, "made ground," beds of old streams of water, and, perhaps, some few other causes, as among the active agents producing this mortality that are not found to exist in some other portions, where the mortality is low. It is to be hoped that within the next year this whole matter may be thoroughly investigated, and such causes as may exist be discovered and steps be taken to remedy them.

From the present stage of the investigation the indications are that we need a decidedly improved system of tile and sewer drainage of South Washington, that part of the city north of L street, and east and southeast of the Capitol.

The lack of any geological survey of the District and a set of topographical maps and charts, showing not only the conformation of the surface of the land, but also the constituents of the soil to the depth of at least 15 feet, stands so in the way of making such a thorough and complete investigation of all local causes to all diseases as to very much increase any work of this kind. Another very useful object to attain is a complete house-to-house investigation (after the manner of that of Memphis, conducted under the advice and co-operation of the National Board of Health). With all these facts before us, it would be comparatively easy to investigate local causes of diseases in the District of Columbia.

For the purpose of founding a few remarks on zymotic diseases and their relation to some others, the following statements have been prepared:

Statement No. 1, *showing the number of deaths from seven of the principal zymotic diseases, and death rates from the same, occurring in the District of Columbia for each of the years ending June* 30, 1876, 1877, 1878, 1879, *and* 1880, *classified as to color.*

Diseases.	1876.		1877.		1878.		1879.		1880.	
	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.	White.	Colored.
Measles	3	.....	7	3	2	5	8	3	.....	1
Scarlet fever	31	6	107	15	107	39	115	12	21	7
Diphtheria	29	4	38	11	101	39	60	20	23	6
Croup	29	16	31	8	35	21	20	27	27	18
Whooping-cough	25	36	12	23	12	18	6	19	18	32
Typhoid fever	68	35	54	28	67	34	45	28	43	41
Diarrhœal diseases	341	342	224	266	223	243	197	216	214	255
Total	526	439	473	354	547	399	451	325	346	360
Annual death rate per 1,000	4. 94	8. 63	4. 32	6. 57	4. 87	7. 26	3. 91	5. 70	2. 93	6. 06

Statement No. 2, showing the percentages of deaths occurring in the District of Columbia from zymotic and constitutional diseases, pneumonia, bronchitis, and consumption, to total number of deaths as per annual reports for the years 1875, 1876, 1877, 1878, 1879, *and* 1880.

Diseases.	Percentages for the years.						Mean.
	1875.	1876.	1877.	1878.	1879.	1880.	
Zymotic diseases	25.39	24.89	25.15	23.59	23.04	22.89	24.16
Constitutional diseases	21.39	22.30	24.23	25.27	25.74	26.22	24.19
Pneumonia and bronchitis	11.63	11.87	9.74	12.17	11.70	10.34	11.24
Phthisis	13.30	14.01	14.84	18.20	16.62	17.33	15.78

Statement No. 1 shows a gratifying decrease of death rates since 1876 from the diseases considered; and statement No. 2, that the ratio of all the deaths from the whole class of diseases denominated zymotic, has decreased in their proportion to the total mortality from all causes. Statement No. 2 also shows a greater increase of the ratio of constitutional diseases than the zymotics show decrease; the increase being among cases of phthisis or consumption principally. Very little change appears among the cases of pneumonia and bronchitis.

The zymotic class of diseases is usually placed at the head of our tables of classification, and is by many considered the mostimportant, as indicating the relative healthfulness or unhealthfulness of different countries or localities. By some they are termed preventable diseases as well as zymotic. As it has not yet been proved that they are as a class preventable, this term is apt to be misleading, and as the term "zymotic" has not yet been sufficiently well defined by experts to be wholly acceptable to the scientific world, on account of the uncertainty of its full and complete meaning, the use of this term for generic purposes is vague if not wholly useless. Both these terms, "preventable" and "zymotic," have variable meanings, and it is to be hoped that the next nomenclature of diseases agreed upon by statisticians may not be mixed with variable meaning terms. Why scarlet fever should be any more preventable than pneumonia, or typhoid fever than puerperal diseases, is a mystery. And why a high death rate from these so-called zymotic diseases is any more to be considered detrimental to the reputation for salubrity of any locality than an equally high rate from consumption, pneumonia, or any other disease or diseases, is another mystery. It has been the fashion of sanitarians and sanitary engineers for several years back to cast their thunderbolts at the zymotics, and, to make their points appear stronger, they often use the term "preventable diseases." That typhoid fever, small-pox, scarlet fever, whooping-cough, and some others, may be controlled in a measure by proper sanitary surroundings, isolation, and disinfection, is undoubtedly true. But is this any more true in their case than that proper hygienic conditions, warm clothing, good and sufficient food, and protection from atmospheric changes will control the frequency of acute respiratory diseases, and even consumption itself? It has not yet been proved how much the condition of the child's health at the time of the supposed exposure to any one of these diseases—for instance, scarlet fever—may have had to do with the absoption of the supposed germ of the disease. Physicians even of but limited practice have known cases where on no basis of known facts can the germ, if there be such a thing, of scarlet fever be traced. A theory may be a very plausible and valuable help in explaining occult matters, but it takes more than its continued iteration to make the theory an established

or accepted fact. There are other diseases that are as notably affected by the environment as any of the so-called preventable or zymotic, and principally among these we find phthisis or consumption. One-sixth of all our deaths are from this disease alone. In examining the map on which the locations are given, where the deaths from this disease have occurred during the past year, as well as the map published in the last report of this office, it is plain to be seen by those acquainted with the city that where the subsoil is damp there are found the greatest number of deaths from consumption. And comparing the locations of the greatest mortality from consumption on this map with the same locations on the map where are given the total deaths we find an increased number of deaths from all causes.

Although the death rate in this District is remarkably low, yet it is believed still capable of material reduction by a proper tile and sewer drainage of different locations, as indicated above. The lecture of Colonel Waring on the "Sanitary Drainage of Washington" is a masterly handling of the subject, and many of his suggestions will, in my opinion, be yet adopted.

Respectfully submitted.

THEO. MEAD, M. D.,
Medical Sanitary Inspector.

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

LAWS AND ORDINANCES RELATING TO THE PUBLIC HEALTH.

LAWS AND ORDINANCES.

The health ordinances being legalized at last session of Congress, it has been deemed advisable to present them in this report, together with the other laws relating to the public health. They are arranged in regular order, commencing with the organic act establishing a health organization, and will prove convenient for reference.

ACT OF CONGRESS ESTABLISHING BOARD OF HEALTH.

Section 26 of an act of Congress approved February 21, 1871, entitled "An act to provide a government for the District of Columbia."

[Sec. 72, chap. 1, vol. 2, Revised Statutes.]

* * * * * * *

SEC. 26. *And be it further enacted*, That there shall be appointed by the President of the United States, by and with the advice and consent of the Senate, a board of health for said District, to consist of five persons, whose duty it shall be to declare what shall be deemed nuisances injurious to health, and to provide for the removal thereof; to make and enforce regulations to prevent domestic animals from running at large in the cities of Washington and Georgetown; to prevent the sale of unwholesome food in said cities; and to perform such other duties as shall be imposed upon said board by the legislative assembly.

* * * * * * *

Approved February 21, 1871.

Section 8 of an act of Congress approved June 11, 1878, entitled "An act providing a permanent form of government for the District of Columbia."

* * * * * * *

SEC. 8. That in lieu of the board of health now authorized by law, the Commissioners of the District of Columbia shall appoint a physician as health officer, whose duty it shall be, under the direction of the said Commissioners, to execute and enforce all laws and regulations relating to the public health and vital statistics, and to perform all such duties as may be assigned to him by said commissioners; and the board of health now existing shall, from the date of the appointment of said health officer, be abolished.

* * * * * * *

Approved June 11, 1878.

PUBLIC RESOLUTION.—No. 20.

Joint Resolution legalizing the health ordinances and regulations for the District of Columbia.

Resolved by the Senate and House of Representatives of the United States in Congress assembled, That the ordinances of the late Board of Health of the District of Columbia, as revised, amended, and adopted, November nineteenth, eighteen hundred and seventy-five, entitled "An ordinance to revise, consolidate, and amend the ordinances of the Board of Health, to declare what shall be deemed nuisances injurious to health and to provide for the removal thereof," as printed in the report of said late Board of Health made to the first session of the Forty-fourth Congress, being executive document number one, part eight, be, and the same are hereby, legalized; and the respective penalties therein prescribed for violations thereof may be imposed and enforced for the respective offenses therein described, excepting the sections of said ordinance following, namely: Sections seven, nine, and fourteen, which said sections are not hereby legalized.

Ordinances legalized and penalties to be enforced.

Sections not legalized.

SEC. 2. That the ordinances, rules, and regulations of said late Board of Health contained in the report mentioned in the preceding section, and printed in the said executive document therein mentioned, namely:

Domestic animals.

First. "An ordinance to amend an ordinance to prevent domestic animals from running at large within the cities of Washington and Georgetown, passed by the Board of Health May nineteenth, eighteen hundred and seventy-one";

Second. "An ordinance to prevent the sale of unwholesome food, in the cities of Washington and Georgetown";

Unwholesome food.

Third. "An ordinance to provide for the inspection of streets, food, live stock, fish and other marine products, in the cities of Washington and Georgetown, and to define the duties of inspectors and other officers of the Board of Health";

Inspection of streets, food, live stock, marine products, &c.

Fourth. "An ordinance to amend section ten of the code so as to read":

Fifth. "An ordinance to amend an ordinance passed May thirteenth, eighteen hundred and seventy-three, to read as follows":

Sixth. "An ordinance to prevent committing or creating nuisances in or about public urinals located within the cities of Washington and Georgetown";

Seventh. "Rules and regulations in regard to small-pox";

Small-pox.

Eighth. "Regulations to secure a full and correct record of vital statistics, including the registration of marriages, births, and deaths, the interment, disinterment, and removal of the dead in the District of Columbia," be, and the same are hereby, legalized and made valid; and the penalties therein provided respectively for violations thereof, may be imposed and enforced for the violations of the same respectively, as provided by section twenty-seven of the ordinances passed November nineteenth, eighteen hundred and seventy-five.

Vital statistics.

Approved, April 24, 1880.

Ordinances as revised, amended, and adopted by the Board of Health, November 19, 1875.

AN ORDINANCE to revise, consolidate, and amend the ordinances of the Board of Health, to declare what shall be deemed nuisances injurious to health, and to provide for the removal thereof.

Be it ordained and enacted by the Board of Health of the District of Columbia, That filth, the contents of cess-pools, offal, garbage, foul water, dye-water, refuse from manufactories, ordure, urine, stable-manure, decayed animal or vegetable matter, or other offensive substance detrimental to health, thrown, placed, or allowed to remain, in or upon any street, avenue, alley, sidewalk, gutter, public reservation, or open lot, in the cities of Washington and Georgetown, or in the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person who shall commit, create, or maintain the aforesaid nuisances, or either of them, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Filth or other offensive substance thrown in streets, avenues, or public places.

SEC. 2. That the carrying and transporting of bones, hides, fish, garbage, offal, or other animal or vegetable substances, in decomposing and offensive condition, in any other than covered and inclosed vehicles, through any street, avenue, alley, or public place, within the cities of Washington and Georgetown, or the more densely populated suburbs of said cities, is hereby declared a nuisance injurious to health; and any person who shall cause, commit, create or maintain such nuisance, shall upon conviction, be fined not less than two nor more than twenty-five dollars for every such offense.

Carrying offensive substances in open vehicles through streets, avenues, &c.

SEC. 3. That manure accumulated in great quantities; manure, offal, or garbage piled or deposited within 300 feet of any place of worship, or of any dwelling, or unloaded along the line of any railroad, or in any street or public way; cars or flats loaded with manure, or other offensive matter, remaining or standing on any railroad, street, or highway in the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person who shall pile or deposit manure, offal, or garbage, or any offensive or nauseous substance within 300 feet of any inhabited dwelling within the limits of said cities, or their said suburbs; and any person who shall unload, discharge, or put upon or along the line of any railroad, street or highway or public place, within said cities or their said suburbs, any manure, garbage, offal, or other offensive or nauseous substance within 300 feet of any inhabited dwelling, or who shall cause or allow cars or flats loaded with, or having in or upon them any such substance to remain or stand in or along any railroad, street or highway, within the limits of said cities or their suburbs, within 300 feet of any inhabited dwelling, and who shall fail, after notice duly served by this board, to remove the same, shall, upon conviction thereof, be fined not less than five, nor more than twenty-five dollars for every such offense.

Manure, offal, and other offensive substances, in large quantities, within three hundred feet of any dwelling or along line of street, railroad, &c.

SEC. 4. The filling, leveling or raising the surface of any

Filling lots with filth and offensive

substances, or removing surface of lots so filled.

ground or lot within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, with animal or vegetable substances, filth gathered in cleaning yards or streets, or waste material from mills or factories, or the removal of the surface of any ground or lot within said cities or their said suburbs, filled with such offensive matter or substance, in such manner as to cause noisome odors or noxious gases to arise, are hereby declared nuisances injurious to health; and any person who shall cause, commit, create, or maintain such nuisance, shall, upon conviction, be fined not less than five nor more than twenty dollars for every such offense.

Defiling or poisonous substances thrown into spring, well, or river water, public reservoir, water pipe.

SEC. 5. That throwing or placing any defiling or poisonous substance, decayed animal or vegetable matter or filth into, or causing or allowing the same to pass or enter into, any spring, well, or river water, used by the public for drinking or cooking purposes, or into the water of any public reservoir or water pipe within the District of Columbia, whereby such water is rendered impure and unwholesome, are hereby declared nuisances injurious to health; and any person who shall commit or create such nuisance shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

Impure and unwholesome wells or springs.

SEC. 6. That any wells, springs, or water used for drinking or cooking purposes, which are impure and unwholesome, or which have been rendered impure and unwholesome by reason of any defiling or poisonous substance, are hereby declared nuisances and injurious to health; and any person who shall maintain or continue such nuisance, after due notice from this board to abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Stagnant water on lots and marshy land.

SEC. 7. That stagnant water upon any ground or lot within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, and any marshy land, the same being made such by defective drainage or otherwise, are hereby declared nuisances injurious to health; and any person causing, creating or maintaining such nuisance, who shall, after due notice from this board, refuse or neglect to abate the same, shall, upon conviction, be fined not less than ten nor more than one hundred dollars for every such offense.

Ailantus trees in bloom producing offensive and noxious odors.

SEC. 8. That ailantus trees, the flowers of which produce offensive and noxious odors, in bloom, in the cities of Washington and Georgetown, or the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than ten dollars for every such offense.

Filthy, badly ventilated, undrained, damp, and unhealthy dwellings, &c.

SEC. 9. That any dwelling-house or building wherein people live, congregate, or assemble, which is deficient in ventilation, drainage, or other provision essential to health, which has a leaky roof or is below grade so as to render the walls thereof damp and the rooms unhealthy, or is decayed or filthy, and premises which are filthy and offensive,

are hereby declared nuisances injurious to health; and any person who shall create or maintain such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

Inadequate and insufficient drain-pipes, soil-pipes, and passages into sewers.

SEC. 10. That drain-pipes, soil-pipes, passages into sewers, or connections between any sewer and any ground or building, not of adequate and sufficient size to allow the free and entire passage of all the material that enters the same, or not provided with good and sufficient sewer-traps, so as to prevent the escape of noisome gases therefrom, are hereby declared nuisances injurious to health; and any person creating or maintaining either of said nuisances, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Filthy and offensive water-closets and privies.

SEC. 11. That all water-closets and privies connected with any house, building, or premises, within the District of Columbia, in or upon which people live, orwhere they congregate or assemble, or any kind of business is done, kept in a filthy and offensive condition, or from which noisome odors and noxious gases arise, and all water-closets located within and being a part of any such house or building not provided with proper sewer-traps so as to prevent the return and escape of noxious gases and offensive odors from any public or private sewer connected therewith, are hereby declared nuisances injurious to health; and any person creating, keeping, or maintaining such nuisance, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offence.

Privies unlawfully and improperly constructed or located.

SEC. 12. That any privy within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, including Uniontown or Anacostia, and Mount Pleasant, in the District of Columbia, constructed of other material than brick, cement, or wood, or which is not provided with a sufficient box, bucket, or vessel for the reception of filth, and the inside of which is not at least five feet distant from the line of any adjoining lot, and at least two (2) feet distant from any street, lane, alley, camp, square, or public place, or public or private passage-way; and any privy so constructed that it cannot be conveniently approached and cleaned, or in such manner that each and every vault, box, bucket, or vessel thereof is not made tight and close, so that the contents thereof cannot escape therefrom, except as may be permitted by means of a passage-way or conduit under ground, for the purpose of carrying away the contents of such vault, box, or vessel into any common sewer or drain, is hereby declared a nuisance injurious to health; and any person who shall create, maintain, or continue such nuisance, and shall fail, after due notice from this board, to abate or remedy the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Leaky privies, privy-boxes, vaults, &c.

Fœcal matter remaining in privies.

SEC. 13. That fœcal matter, not thoroughly deodorized and disinfected, remaining in privies in the District of Columbia, is hereby declared a nuisance injurious to health;

Privies to be inspected and cleaned.

and the board of health shall, upon the receipt of complaint in writing, cause any privy to be inspected, and, if necessary, cleaned by the person authorized for said purpose; and any person owning or occupying premises on which any privy is situated, who shall refuse to permit the same to be inspected and cleaned at the times designated by said board, or whenever necessary, shall, upon conviction, be fined not less than five dollars for every such offense.

No person to clean privies for hire unless authorized by the board of health.

SEC. 14. That it shall be unlawful for any person other than such as shall be authorized by this board, to clean any privy in the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, for hire; or for any person to employ any other than a regular appointee or contractor of this board for such purpose; any person so offending shall, upon conviction, be fined not less than ten dollars for every such offense.

Depositing contents of privy in place not approved by board of health.

SEC. 15. That it shall be unlawful for any person to deposit the contents of any privy in any place other than such as may be approved by this board; and any person so offending shall, upon conviction, be fined not less than five nor more than fifty dollars for every such offense.

Bucket system of removing night soil and transporting contents in carts, &c., not air-tight, through streets, &c.

SEC. 16. That the system heretofore in use of removing night soil, cleaning privies, privy-boxes, vaults, sinks, and cess-pools within the cities of Washington and Georgetown, and the more densely populated suburbs of said cities, by buckets or other process agitating and exposing the contents thereof in the open air, and of transporting said contents in carts or other vehicles not air-tight, through the streets, avenues, alleys, and other public places within said cities, and their said suburbs, is hereby declared a nuisance injurious to health; and that from and after the 15th day of October, A. D. 1873, no part of the contents (except substances not soluble in water) of any privy, privy-box, vault, sink, or cess-pool within said cities or their said suburbs, shall be removed therefrom, nor shall the same be transported through any of the streets, avenues, alleys, or other public places of said cities or of their said suburbs, except as the same shall be removed and transported by means of some air-tight apparatus, pneumatic or other process, so as to prevent the said contents from being agitated or exposed in the open air during said process of removal or transportation; and any person violating the provisions of this section shall, upon conviction thereof, be fined not less than ten nor more than fifty dollars for every such offense.

On and after October 15, 1873, contents of privies, &c. to be removed and transported only by air-tight apparatus.

Keeping and feeding of hogs in pens, &c.

SEC. 17. That the keeping, herding, and feeding of hogs, in pens or otherwise, within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, is hereby declared a nuisance injurious to health; and any person creating or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Filthy and unwholesome stables, sheds, and pens.

SEC. 18. That filthy and unwholesome stables, sheds, pens, or places where cows, horses, mules, or other animals are kept, within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, are hereby

declared nuisances injurious to health; and any person creating or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Glandered or diseased animals remaining in stables, pens, &c.

SEC. 19. That any animal affected by glanders or other contagious or pestilential disease, kept or remaining in any stable, shed, pen, or place within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, is hereby declared a nuisance injurious to health; and any person keeping or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than five nor more than twenty-five dollars for every such offense.

Filthy and noisome tanneries, &c.

SEC. 20. That all establishments or places of business for tanning, skinning, scouring, or dressing hides or leather, within the District of Columbia, in a filthy condition, or from which noisome odors and noxious gases arise, are hereby declared nuisances injurious to health; and any person who shall erect, create, maintain, or continue such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Boiling swill, burning bones, and other offensive and noxious trades, &c.

SEC. 21. That the boiling of offal, swill, bones, fat, tallow, or lard; the crushing, grinding or burning of bones or shells; cleansing of guts; making glue from any dead animal or part thereof; making or boiling varnish or oil; making lampblack, turpentine, or tar; distilling ardent, alcoholic, or fermented spirits; storing or keeping scraps, fat, grease, or other offensive animal matter; rendering or trying out dead, undressed, and unslaughtered animals, or any other business or trade whereby noisome stenches and odors and noxious gases arise or are generated, within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, are hereby declared nuisances injurious to health; and any person who shall cause, erect, create, maintain, or continue any such nuisance, and who shall fail, after due notice from this board, to abate the same, shall, upon conviction thereof, be fined not less than ten nor more than one hundred dollars for every such offense.

Unclean and filthy slaughter-houses.

SEC. 22. That unclean and filthy slaughter-houses, rooms, buildings, or places where sheep, hogs, cattle, or other animals are slaughtered, within the District of Columbia, are hereby declared nuisances injurious to health; and any person creating, keeping, or maintaining such nuisance, who shall fail, after due notice from this board, to abate the same, shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Crushing or breaking stone, creating offensive dust, &c.

SEC. 23. That the crushing or breaking of stone within the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, by machines or otherwise, in such manner as to create offensive and deleterious dust, is hereby declared a nuisance injurious to health; and any person creating or maintaining said nuisance, who shall fail, after due notice from this board, to remove or abate the same,

shall, upon conviction, be fined not less than ten nor more than fifty dollars for every such offense.

Undressed dead animals remaining in cities of Washington and Georgetown.

SEC. 24. That undressed dead animals being or lying in any part of the cities of Washington or Georgetown, or the more densely populated suburbs of said cities, viz: Any of the horse, mule, or jack kinds, or any cow, goat, calf, sheep, dog, or swine, are hereby declared nuisances injurious to health; and any person owning, possessing, or controlling any such dead animal, or any person who shall knowingly place or allow such dead animal to remain in any part of said cities or their said suburbs, and who shall fail to give notice thereof to the board of health within eight hours after the death of said animal, shall, upon conviction, be fined not less than five nor more than ten dollars for every such offense.

Unmuzzled and hydrophobic dogs going at large to be killed by owner, or taken up and shot by poundmaster if not redeemed.

SEC. 25. That unmuzzled dogs, going upon any street, avenue, or other public place, between the fifteenth day of May and the fifteenth day of October in any year, mad dogs, and dogs bitten by hydrophobic dogs, are hereby declared nuisances injurious to health; and any person owning or keeping any dog who shall allow the same to go unmuzzled upon any street, alley, or other public place, between the fifteenth day of May and the fifteenth day of October in any year, or who shall refuse to kill, or to cause to be killed, any such dog owned or kept by him, which has gone mad, or given symptoms of hydrophobia, or who shall omit to confine any such animal exposed to such disease, or which has been bitten by a hydrophobic dog or animal, shall be deemed guilty of keeping and maintaining a nuisance, and, upon conviction thereof, shall be fined not less than one nor more than twenty-five dollars; and any dog going at large between the fifteenth day of May and the fifteenth day of October in any year, without a proper muzzle, shall be taken up by the poundmaster, who shall charge the owner of the same one dollar for its redemption; and every such dog not redeemed within twenty-four hours after having been taken up as aforesaid shall be liable to be shot by said poundmaster.

Dogs to be muzzled at certain times.

Dogs impounded may be redeemed upon payment of one dollar.

The health officer to abate nuisances after notice to party liable, and costs of removal to be collected from said party by suit at law.

SEC. 26. That it shall be the duty of the health officer appointed by this board, upon receiving information or obtaining knowledge of the existence of anything or things herein declared to be nuisances, or anything or things which may hereafter be declared to be nuisances by any ordinance or resolution enacted or adopted by this board, to notify the person or persons committing, creating, keeping, or maintaining the same, to remove, or cause to be removed, the same within twenty-four hours, or such other reasonable time as may be determined by this board, after such notice be duly given; and the same be not removed by such person or persons within the time prescribed in said notice, it shall be the duty of the health officer aforesaid to remove, or cause to be removed, such nuisance or nuisances, and all costs and expenses of such removal shall be paid by the persons committing, creating, keeping, or maintaining such nuisance or nuisances; and if the said costs and expenses thus accruing shall not be paid within ten days after such removal by said health officer, the same shall be collected from the person or per-

sons committing, creating, keeping, or maintaining such nuisances by suit at law.

Fines to be collected by information filed in police or other court at instance of the board of health.

SEC. 27. That all fines and penalties imposed by any section of this ordinance shall be collected by prosecution in the police or other proper court of the District of Columbia, by information filed in said court, at the instance of the board of health; and whenever the nuisance complained of is set forth as continuing and existing, and is shown to be such to the satisfaction of the court before whom the person creating or maintaining said nuisance is tried, the party so offending shall, upon conviction thereof, in addition to the fine imposed, be ordered by said court to abate or remove said nuisance.

Court to order abatement of nuisances.

Repeal of inconsistent ordinances.

SEC. 28. That all ordinances, or parts of ordinances, of this board, inconsistent or in conflict with the foregoing provisions of this ordinance are hereby repealed.

Passed November 19, 1875.

AN ORDINANCE to amend "An ordinance to prevent domestic animals from running at large within the cities of Washington and Georgetown, passed by the Board of Health May 19, 1871."

Domestic animals running at large to be impounded.

Be it ordained and enacted by the Board of Health of the District of Columbia, That domestic animals shall not be permitted to run at large within the limits of the cities of Washington and Georgetown, and all domestic animals found running at large within the limits of said cities shall be taken up and impounded.

Animals to be sold, poundmaster to act as auctioneer.

SEC. 2. That every animal taken up and impounded as aforesaid, within forty-eight hours after such impounding, if not claimed, and the charges for taking up, impounding, and keeping the same paid, shall be sold at public auction; and the poundmaster appointed by this board, as hereinafter provided, is hereby authorized to act as auctioneer at said sale.

Proceeds of sales to be turned over to the treasurer of the board.

SEC. 3. That the proceeds of such sale shall be paid over to the treasurer of the board, who shall give duplicate receipts therefor, one copy of the same to be retained by the officer selling such animals, and the other copy to be by said officer filed with the secretary of the board; and it shall be the duty of said treasurer to keep an accurate account of all moneys received by him under the provisions of this ordinance, and to report the same from time to time as required by the board.

Proceeds of sales to be paid to owner after deducting charges and expenses.

SEC. 4. That all moneys received by said treasurer from the sale of animals, as aforesaid, shall, if demanded by the owner of such animals, at any time within one year from the sale thereof, upon satisfactory proof that such claimant was the owner of such animal sold as aforesaid, after deduction of charges and expenses, as hereinafter specified, of taking up, and impounding, and keeping such animals, be paid to such claimant; otherwise said moneys shall be used by this board for sanitary purposes within and for the benefit of the District of Columbia.

Charges for impounding domestic animals.

SEC. 5. That the charges for taking up and impounding domestic animals found running at large within the cities of Washington and Georgetown shall be as follows, to wit:

For each horse, mule, bull, steer, cow, calf, heifer, two dollars; and for each sheep, goat, hog, one dollar; and for each goose fifty cents; and, in addition to said several sums, the charges for keeping said animals shall be the reasonable and necessary expenses thereof, to be paid by the owner.

No person shall break open pound, hinder or obstruct while driving or carrying animals to pound.

SEC. 6. That no person shall break open, or in any manner directly or indirectly, aid or assist in breaking open, any pound established by the board of health, or take or let any animal out of such pound, without the consent of the officer keeping the same; nor shall any person or persons hinder, delay, or obstruct any person or persons engaged in driving or carrying to such pound any animal or animals liable to be taken up or impounded under the provisions of this ordinance; and any person violating the provisions of this section shall be punished, upon conviction thereof, by a fine of not less than five dollars nor more than twenty-five dollars for each and every violation.

Duties of poundmaster; to give bonds, &c.

SEC. 7. That there shall be appointed by the board of health a poundmaster, whose duty it shall be to take up and impound all domestic animals found running at large within the cities of Washington and Georgetown, to keep safely and carefully all property pertaining to said pound, and all animals impounded therein; and to report from time to time, through the health officer, as required by this board, the condition of said pound, and what repairs, if any, are needed; and the number and description of the animals therein impounded, and what disposition has been made of the same; and to report all moneys received by him under the provisions of this ordinance. And it shall be the further duty of said poundmaster to pay over, daily, all moneys received as aforesaid to the health officer, taking receipt therefor, and said poundmaster shall give good and sufficient bonds for the proper discharge of his several duties as herein provided.

Poundmaster to keep register of animals; persons to present evidence of ownership. Notice of sales to be published.

SEC. 8. That the poundmaster appointed by this board shall keep a register of all animals taken up by him, with an accurate description of the same, which shall at all times be open to the inspection of the public; and the said poundmaster is hereby forbidden to deliver any animal taken up and impounded to any person applying for the same unless such person shall present good and sufficient evidence of his ownership or right to the possession of said animal; and no sale of any animal or animals impounded as aforesaid shall be made until due public notice by advertisement in at least one newspaper of such sale shall have been given, together with a description of the animal or animals to be sold, as hereinbefore provided.

Repealing inconsistent ordinances.

SEC. 9. That any ordinance or part of an ordinance heretofore passed by the board of health of the District of Columbia, inconsistent with the foregoing, be, and the same is hereby, repealed.

AN ACT authorizing the Commissioners of the District of Columbia to extend the area for the taking up and impounding of domestic animals in the District of Columbia.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That the

Commissioners of the District of Columbia be, and are hereby, authorized to prescribe rules for taking up and impounding of domestic animals found running at large in the District of Columbia.

Act extending area.

Approved, June 27, 1879.

AN ORDINANCE to prevent the sale of unwholesome food in the cities of Washington and Georgetown.

Be it ordained and enacted by the board of health of the District of Columbia, That no person shall knowingly sell, or cause to be sold, within the cities of Washington or Georgetown, any impure, diseased, decayed, or unwholesome provisions, nor shall any person fraudulently adulterate, for the purpose of sale within said cities, any bread or other material intended to be used for food with any substance of a poisonous character, or any substance injurious to health; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than ten nor more than fifty dollars for each and every such offense.

Impure or unwholesome provisions, adulterated food not to be sold.

SEC. 2. That no person shall offer for sale within the cities of Washington or Georgetown any liquor used for drink, whether malt, vinous, or ardent, or the milk of cows or goats, intended to be used for food or drink, which has been adulterated with any poisonous or deleterious ingredient; and any person violating the provisions of this section shall, upon conviction, be punished by a fine of not less than ten nor more than fifty dollars for each and every such offense.

Adulterated liquor or milk not to be sold.

SEC. 3. That no person shall convey into the cities of Washington or Georgetown, and offer for sale in any part of said cities, any animal or part of animal that may be sickly, diseased, or unwholesome, or which may have died from disease or accident, or any fish, or vegetables not fresh, sound, and fit for food; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

Sickly and diseased animals, or that may have died of disease or accident, or any fish or vegetables not fresh and sound not to be sold.

SEC. 4. That no person shall slaughter any cattle for the purpose of sale as food within the cities of Washington and Georgetown when such cattle are in a feverish or diseased condition; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

Feverish or diseased cattle not to be slaughtered for food.

SEC. 5. That no person, whether owner, manager, keeper of, agent, bar-tender, or clerk in, any saloon, restaurant, boarding-house, or eating-house, located within the cities of Washington or Georgetown, shall offer for sale as food or drink anything poisonous or unwholesome; and any person violating the provisions of this section shall, upon conviction thereof, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

No person to offer for sale as food or drink anything poisonous or unwholesome.

SEC. 6. That no person owning, renting, leasing, or occupying any stall, room, or stand where meats or vegetables are sold for food, within the cities of Washington or George-

Stalls, rooms or stands where meats or vegetables are sold to be kept in a cleanly condition.

town, shall fail to keep said stall, room, or stand in a cleanly condition; nor shall such person allow said meats or vegetables to become poisoned, or infected, or unfit for food, by reason of uncleanly condition of such stall, room, or stand; and any person violating the provisions of this section shall, upon conviction, be punished by a fine of not less than ten nor more than twenty-five dollars for each and every such offense.

Unwholesome, watered, adulterated or swill milk, or butter or cheese made from such unwholesome milk not to be sold.

SEC. 7. That no person shall offer for sale, within the cities of Washington or Georgetown, any unwholesome, watered, or adulterated milk, or swill milk, or milk from cows kept up and fed on garbage, swill, or other deleterious substance; nor shall any person offer for sale within said cities any butter or cheese made from such unwholesome milk; and any person violating the provisions of this section shall, upon conviction, be punished by a fine of not less than five nor more than twenty-five dollars for each and every such offense.

Persons not to sell or expose for sale any unsound, blown, or unwholesome meat, or other article of food.

SEC. 8. That on and after the passage of this ordinance it shall be unlawful for any person or persons to sell or expose for sale, within the cities of Washington or Georgetown, any unsound, blown, or unwholesome meat or other article of food, under penalty of not less than five nor more than twenty-five dollars for each and every such offense.

AN ORDINANCE to provide for the inspection of streets, food, live stock, fish and other marine products in the cities of Washington and Georgetown, and to define the duties of inspectors and other officers of the board of health.

Health officer and inspectors to be appointed.

Be it ordained and enacted by the board of health of the District of Columbia, That there shall be appointed by the board of health a health-officer and such inspectors as may be required, who shall be assigned to the several duties of inspection of streets, of food, of live stock, of fish and other marine products, or detailed for the performance of such other duties as may be necessary.

Duties of health officer.

SEC. 2. That it shall be the duty of the health-officer, as he may be directed by this board, to execute or cause to be executed the ordinances, resolutions, and orders of the board, and generally, according to its instructions, to exercise a practical supervision in respect to inspectors, poundmaster, and the clerical force in his office; and said health-officer shall devote his services to the aforesaid purposes as the board may direct.

Duties of inspectors of streets.

SEC. 3. That it shall be the duty of each inspector of streets to visit every part of his district daily, and carefully inspect all streets, alleys, yards, and inclosures, horse and cow stables, privies, slaughter-houses, wharves, and other places where offensive or deleterious matter may exist, and to report promptly to the health-officer any and all nuisances injurious to health; and the inspectors of streets shall perform such other duties and special inspections as may be directed by the health-officer.

Duties of inspectors of food.

SEC. 4. That it shall be the duty of each inspector of food to attend the market or markets within his inspection

district every morning, at the time when sales commence, and carefully inspect all meats, fowl, game, and vegetables offered for sale, and condemn, seize, and cause to be removed such as may be diseased, or from any other cause rendered unfit for food. He shall also visit, as early as practicable each day, every green-grocery or other place within the district, where articles of food are kept for sale, and perform his duty of inspection, condemnation, seizure, and removal as hereinbefore prescribed. He shall report his official proceedings daily to the health-officer, and in the performance of his duties shall be under the direction of said officer; and the inspectors of food shall perform such other duties and special inspections as may be directed by the health-officer.

Duties of live-stock inspector.

SEC. 5. That it shall be the duty of the inspector of live stock to carefully inspect all cattle, hogs, sheep, or other animals intended to be killed and sold for consumption as food in the cities of Washington and Georgetown, and to condemn all such as may be diseased, or from any other cause rendered unfit for food; and it is hereby made the duty of said inspector to brand with the letter "C" all cattle, hogs, sheep, or other animals condemned as aforesaid, and said inspector shall report his official proceedings daily to the health-officer.

Duties of inspector of marine products.

SEC. 6. That it shall be the duty of the inspector of fish and other marine products to examine and inspect all fish, oysters, clams, lobsters, crabs, and other marine products, landing by boat, arriving by rail, or otherwise brought by any person or persons into the cities of Washington or Georgetown; and if, upon such inspection, said inspector shall find any of the said marine products to be in an unsound, diseased, or unwholesome condition, it shall be his duty to prohibit their sale; and the said inspector of fish is hereby authorized, empowered, and directed to condemn seize, and remove any unsound, diseased, or unwholesome fish, oysters, clams, lobsters, crabs, or other marine products which may be offered for sale as food within the cities of Washington and Georgetown.

Inspector authorized to board boats, cars, and vehicles.

SEC. 7. That in the performance of the duties herein prescribed the inspector of fish shall be, and is hereby, authorized and empowered to board all boats, vessels, steamboats, and cars, and to stop all vehicles believed by him to contain fish or other marine products, for the purpose of enforcing the provisions of this ordinance, and said inspector shall report his official proceedings daily to the health-officer.

When an inspector of food is in doubt as to condition or quality he shall forbid the sale and notify the health officer.

SEC. 8. That upon any cattle, meat, birds, fowls, fish, or other marine products, vegetables or other articles of food being found by any inspector or other officer of the board of health in a condition which is, in his judgment, unwholesome and unfit for use as human food, or in a condition or of a quality forbidden by the ordinances of this board, but with respect to the quality and condition of which articles of food said inspector or other officer may be in doubt, he shall forbid the sale thereof and order that the same be set aside, and shall at once notify the health-officer of such action; and if, upon inspection, the health-officer shall concur in the judgment of the inspector or other officer aforesaid,

said health-officer shall prohibit the sale and order the removal of said articles, according to the regulations of the Board of Health; and if the health-officer shall not concur in the judgment of the inspector or other officer aforesaid, the sale of said articles shall be allowed. But if, upon inspection, the health-officer is in doubt as to whether said articles should be condemned or not, then the committee on food inspections of the board of health shall decide whether or not said articles shall be condemned and the sale thereof forbidden: *Provided*, That no article of food, in a decayed or offensive condition, shall be allowed to remain where found, but the same shall be caused to be removed forthwith by the inspector or officer aforesaid, according to the rules and regulations of the board of health.

Penalty for molesting or hindering health-officer or inspector.

SEC. 9. That any person who shall molest, hinder, or in any manner prevent said health-officer, or any inspector appointed by this board, from performing any duty imposed upon him or them by the provisions of this ordinance, shall be punished by a fine of not less than twenty nor more than one hundred dollars for each and every such offense.

AN ORDINANCE to amend section 10 of the code so as to read:

Drain-pipes, soil-pipes or passages into sewers of inadequate or insufficient size.

SEC. 10. *And be it further ordained and enacted*, That drain-pipes, soil-pipes, or passages into sewers, which are of inadequate and insufficient size or which are not provided with proper sewer-traps, within the District of Columbia, are hereby declared nuisances, injurious to health; and any person or persons, whether owner or tenant (board, department, or corporation officer), using or possessing any drain-pipe, soil-pipe, passage, or connection between any sewer and any ground, building, or place of business, who shall fail to make such drian-pipe, soil pipe, passage, or connection of adequate or sufficient size to allow the free and entire passage of all that enters or should enter the same, *and provide them with proper sewer-traps;* and who shall fail, after notice duly served upon him, to supply such pipes of adequate and sufficient size, *and provided with proper sewer-traps*, shall be deemed guilty of keeping and maintaining a nuisance, and, upon conviction thereof, shall be punished by a fine of not less than five dollars nor more than ten dollars.

Passed July 30, 1875.

AN ORDINANCE to amend ordinance passed May 13, 1873, to read as follows:

Water-closets and privies kept in an uncleanly or foul condition or not provided with proper sewer-traps.

SEC. 1. That all water-closets and privies connected with any house, building, or premises within the District of Columbia, in and upon which people live or where they do congregate or assemble or any kind of business is done, kept in an uncleanly and foul condition, and from which offensive smells and noxious gases arise, and all water-closets located within and being a part of any such house or building not provided with proper sewer-traps, so as to prevent

the return and escape of noxious gases and offensive odors from any public or private sewer connected therewith, are hereby declared to be nuisances injurious to health; and any person creating, keeping, and maintaining such nuisance, after due notice served upon him by this board to abate the same within twenty-four hours or within such reasonable time as may be determined by this board, shall, upon conviction thereof, be punished by a fine of not less than five dollars nor more than twenty-five dollars for each and every day such nuisance is allowed to remain unabated.

Passed July 30, 1875.

AN ORDINANCE to prevent committing or creating nuisances in or about public urinal, or urinals located within the cities of Washington and Georgetown.

Committing or creating nuisances in or about public urinals.

Be it ordained and enacted by the board of health of the District of Columbia, That fœcal matter deposited in or about any public urinal or urinals located within the cities of Washington and Georgetown, defecating in or about said urinal or urinals, or obstructing the same in any manner or by any means whatever, are hereby declared to be nuisances, injurious to health; and any person convicted of committing or creating either of said nuisances shall be fined not less than ten dollars nor more than fifty dollars for every such offence.

Passed December 28, 1876.

Rules and regulations in regard to small-pox.

THE DISEASE.

Small-pox, nature of.

The essential nature of small-pox is to diffuse itself, and, under certain favorable conditions, it is not only communicable from person to person but capable of being transported to great distances.

To prevent the propagation of the specific poison, the following sanitary regulations have been adopted by the board of health, and approved by the governor of the District of Columbia:

VACCINATION.

Children to be vaccinated before they attain the age of two years, &c.

Parents and guardians shall cause their children and wards to be vaccinated before they attain the age of two years, and re-vaccinated whenever the board of health shall, after five years from the last vaccination, require it.

All inhabitants of the District of Columbia to be vaccinated, &c.

The board of health hereby orders and requires the vaccination of all the inhabitants in the District of Columbia, and, whenever in their opinion the public health demands it, the re-vaccination of all persons who do not furnish satisfactory evidence that they have been successfully vaccinated or re-vaccinated within five years.

Board of health will furnish means of vaccination to such persons as are unable to pay for same.

The board of health will furnish the means of vaccination to such persons as are unable to pay for the same. For this purpose the physicians to the poor, or their assistants, will be directed to vaccinate the poor gratuitously; and,

whenever the exigency requires it, physicians will be employed to go from house to house for the purpose of vaccinating all persons who need vaccinating.

Inmates of all corporations and institutions to be vaccinated at the expense of such corporation or institution.

Principals of incorporated manufacturing companies, superintendents of almshouses, reform and industrial schools, lunatic hospitals, and of all other charities where the poor and sick are received; masters of houses of correction, jailers, keepers of prisons, and directors or officers of all institutions supported or aided by the District of Columbia shall, at the expense of their respective corporations or institutions, cause all inmates thereof to be vaccinated immediately upon their admission thereto, unless they produce sufficient evidence of previous successful vaccination having taken place within five years.

ISOLATION.

Small-pox occurring in a dwelling containing more than two inhabitants to be isolated.

Small-pox being eminently contagious and infectious, isolation forms an imperative necessity for the prevention of its propagation. Whenever, therefore, a case of small-pox occurs in a dwelling containing more than two inhabitants, it shall be the duty of the head of the family to select the most remote apartment for the occupancy of the person afflicted with small-pox, the highest room in the dwelling to be preferred.

Where isolation cannot be effected to the satisfaction of the health officer, to be removed to small-pox hospital by agents of board of health.

And whenever, in a tenement house and lodging house, boarding house, or hotel, the person afflicted by the small-pox cannot be isolated to the satisfaction of the health-officer, said person shall be removed to the small-pox hospital by agents employed for the purpose by the board of health.

WARNING SIGNS.

Warning flag or placard to be exposed from premises occupied by a case of small-pox.

Whenever a case of small-pox breaks out in any dwelling or place, the warning flag (made of yellow flannel) shall be attached to, and exposed from, the premises occupied by said case, as a warning to the passer-by of the presence of small-pox in that locality; and if the yellow flag be not immediately attainable, a placard, on which is written in large and legible letters, "small-pox here," shall be fastened upon an exposed part of the infected house or dwelling.

DISINFECTION.

Dwellings in which small-pox occurs to be fumigated, cleansed, and disinfected.

It shall be the duty of those in whose dwellings small-pox occurs to fumigate the house and the room of the patient, with fumes of burning sulphur, three times a day; to cleanse and disinfect every part of the dwelling by the free use of chlorinated soda, carbolic acid, bromo chloralum, or such other disinfectant as the board of health may direct.

Patient's room to be kept constantly disinfected.

A cloth of the size of a square yard steeped in a solution of chlorinated soda, carbolic acid, or bromo chloralum, shall be hung in the patient's room and kept constantly saturated with the said disinfectants.

CARE OF THE SICK ROOM.

Room of patient to be kept ventilated, no person

The room of the patient shall be kept thoroughly ventilated, and no other person than a nurse who has had the

small-pox, or a member of the family, shall be allowed to enter the same. Persons being in attendance upon the sick shall not come in contact with other inmates or persons, unless they have been previously properly fumigated and disinfected, and have changed the clothing worn by them while in the sick-room.

but nurse or member of family allowed to enter same.

It shall be the duty of said attendants to see that no clothing is conveyed from the sick-room that has not been previously disinfected and fumigated. And, moreover, all clothing in said room, or worn by the patient while affected by small-pox shall be kept distinct and separate, and shall be given out to be washed only to persons who have had the small-pox, the fact to be stated in every instance that they are from a small-pox patient and must, therefore, be kept and washed separately.

No clothing to be conveyed from the sick-room that has not been fumigated, &c.

NOTICE TO THE BOARD OF HEALTH.

It is the duty of every good citizen immediately to notify the board of health of every case of small-pox coming to his knowledge. But it is especially enjoined by law upon the proprietors of tenement houses, lodging houses, boarding houses, and hotels, to notify the board of health of the presence of small-pox in their respective abodes, under penalty of fine and imprisonment, and this law against all persons concerned will be strictly enforced.

Board of health to be notified of the presence of small-pox.

INTERMENTS.

It shall be the duty of the citizen to immediately notify the board of health of the death of any person from small-pox of which he may have knowledge, and no one except such as may have had the small-pox, and the officers of the board of health assigned to that duty, shall take charge of, dress, or bury the body of the person who has thus died.

No person, except such as may have had small-pox, to take charge of, dress, or bury those who have died of small-pox.

The interment of persons dying from small-pox shall take place within six hours after death, or as soon as the circumstances of the case will allow; and no person who has died of small-pox shall be buried in private or public cemeteries or burying grounds without a permit from the board of health, a member of the same, or the health-officer.

Interment of persons dying of small-pox to take place within six hours after death.

Whenever funeral obsequies may be desired, the body shall be placed in a hermetically-sealed metal coffin, and no person will be allowed to be present at said obsequies or follow the corpse to the grave except the nearest kin-relations; and under no circumstance shall a corpse infected with small-pox be taken to a church or meeting house, but it shall be conveyed directly from the house to the grave.

Hermetically sealed metal coffin to be used when funeral obsequies is desired. Corpse to be conveyed directly from the house to the grave.

When people are so poor as to be unable to incur the expense of coffin and burial, any undertaker appointed to furnish coffins to the poor shall provide the coffin, and in every case shall take the same to the house in which the corpse lies, but shall not place said corpse in the coffin, or take any part in laying out the dead, unless he has had the small-pox, and properly fumigated and disinfected his clothing. The laying out of the body and the burial shall be done by the officers appointed for that purpose by the board of health.

Poor people to be furnished coffin and buried by board of health.

SMALL-POX AMBULANCE, INSPECTORS HAVING CONTROL OF THE SAME AND DRIVER THEREOF.

Ambulances to be kept at small-pox hospital.

The small-pox ambulances shall be kept at the small-pox hospital.

Inspector to accompany ambulance.

The ambulance shall be accompanied by an inspector whenever needed for the removal of small-pox patients or otherwise.

Inspector and driver not to enter street cars, &c.

The inspector accompanying the ambulance and the driver are forbidden from entering street cars or any public conveyance.

Clothing to be changed.

They shall also keep a suit of clothing to wear during the service of removing small-pox patients; said suit of clothing to be kept fumigated and disinfected at all times, and under no circumstances shall they wear the said clothing when off duty.

Inspector and driver to wear a linen suit while on duty.

The inspector attending to small-pox patients and the driver of the ambulance shall, until otherwise ordered, wear a linen suit while on duty.

Inspector to fumigate and disinfect dwellings, disinfect clothing, and see that it is destroyed, also keep account of clothes or furniture of poor persons destroyed.

The inspector detailed to attend to the removal of small-pox patients shall fumigate and disinfect the dwellings where small-pox cases occur. He shall see that the clothing is properly disinfected, packed up, carried safely to the ambulance and destroyed. He shall keep an account of the clothes or furniture of poor persons which have been destroyed, the probable value of the same, and the names of the parties to whom they belong, and give a receipt for the same.

Ambulance not to tarry in the streets.

Under no circumstances shall the ambulance be allowed to tarry in the streets, except for such length of time as will be required to remove the patient or the body.

Repairs of ambulance.

The ambulance shall not be taken to any place for repairs; but, if repair is needed, a person having had the small-pox shall be engaged to mend it *at its regular depository.*

Driver of ambulance to avoid crowded thoroughfares, &c.

In driving the ambulance to any point care shall be taken to avoid crowded streets, school-houses, or frequented places. The driver shall, as far as practicable, keep out of crowded thoroughfares, and shall avoid meeting or passing any procession, funeral, or large concourse of people.

Yellow flag to be displayed.

The inspector shall display the yellow flag from every dwelling containing small-pox; and if said flag be taken away without authority, the health-officer must be immediately notified of the fact.

Inspectors of districts to see that quarantine regulations are enforced.

The inspector of each district shall be notified of the presence and locality of small-pox cases in his district; and it shall be his duty to see that the quarantine regulations relating to houses having the small-pox within are properly enforced, and that no person exposed to the contagion be allowed to go out of the dwelling or come in contact with any other person.

Inspector not to cause any unnecessary hardship.

The inspector shall, in an urbane manner, inform the people of the quarantine regulations imposed by the board of health regarding small-pox, but shall cause no unnecessary hardship.

The inspector detailed to attend to the small-pox shall first ascertain whether the case can be isolated in the dwelling, so as not to expose the other inmates to the disease.

Inspector to see that other inmates are not exposed.

Whenever a patient in a tenement, lodging-house, boarding-house, or hotel, is so situated that he cannot be isolated from other inmates, he or she shall be removed and taken to the hospital; and if any person interferes with the execution of this order, or the patient refuses to obey, the law shall be enforced against such person or persons.

Patient to be removed to hospital when he or she cannot be isolated.

If it come to the knowledge of any inspector that cases of small-pox are kept in tenement-houses, lodging-houses, boarding-houses, or hotels, without the proper notice having been given to the board of health as required by law, the inspector shall make immediate report to the health-officer, stating the name of the person or persons causing or abetting in the violation of this law.

Inspector to report to health-officer the names of persons failing to notify board of health of cases of small-pox.

In all cases where there is doubt whether a person is really afflicted with small-pox, a physician's opinion should be secured before removing the patient.

Physician's opinion to be secured where there is doubt as to the disease.

The inspector shall see that the rules regarding the interment of persons who die of small-pox be complied with.

Inspector to see that rules regarding interment are complied with.

The foregoing rules and regulations are made and promulgated by the board of health of the District of Columbia, in accordance with an act entitled "An act for the prevention of diseases in the District of Columbia," passed by the legislative assembly of said District, and approved by the governor thereof, June 19, 1872.

CHRIS. C. COX, M. D., LL. D.,
President Board of Health.

Attest:
D. W. BLISS, M. D.,
Secretary.

Approved:
H. D. COOKE,
Governor.

DISTRICT OF COLUMBIA, BOARD OF HEALTH,
Washington, D. C., December 26, 1872.

It is hereby ordered and resolved by the board of health of the District of Columbia, That the "rules and regulations in regard to small-pox," heretofore made and promulgated by the board of health aforesaid, and approved by the governor of said District, be amended as follows, to wit:

PHYSICIANS ATTENDING UPON SMALL-POX PATIENTS.

It shall be the duty of every physician resident of the District of Columbia, or otherwise, attending upon any person affected by small-pox within said District, to report to the board of health said case of small-pox within twelve hours after his first visit and discovery of the disease of said person; the name and residence of said person; and whether the room or residence in which said person may be

Physicians to report small-pox cases within twelve hours after first visit, &c.

situated and attended has been and is fumigated and disinfected according to the "rules and regulations" aforesaid.

CHRIS. C. COX, M. D.,
President Board of Health.

Attest:
D. W. BLISS, M. D.,
Secretary.

Approved:
H. D. COOKE,
Governor.

Regulations to prevent the spread of small-pox.

Pupils of public and private schools not to be admitted unless vaccinated.

Resolved, That all school trustees, school teachers, or others having authority, are forbidden to receive into or allow to attend any school, public or private, within the District of Columbia, any pupil not vaccinated, as required by the "rules and regulations" heretofore made and promulgated by this board.

Passed February 14, 1873.
Approved by the governor, February 14, 1873.

Act and regulations with regard to vital statistics.

AN ACT to further define and enlarge the powers and duties of the board of health of the District of Columbia.

Board of health to make and enforce regulations to secure a correct record of vital statistics.

Be it enacted by the Senate and House of Representatives of the United States of America in Congress assembled, That it shall be the duty of the board of health of the District of Columbia to make and enforce regulations to secure a full and correct record of vital statistics, including the registration of deaths and the interment of the dead in said District.

Approved June 23, 1874.

In accordance with the foregoing act of Congress, and in pursuance of authority thereby conferred, the following regulations are made and promulgated for the information and guidance of all concerned:

Regulations to secure a full and correct record of vital statistics, including the registration of marriages, births, and deaths, the interment, disinterment, and the removal of the dead in the District of Columbia.

Providing for the appointment of a registrar of vital statistics and defining duties of same.

It is hereby ordered by the board of health of the District of Columbia, that there shall be elected or appointed from its members, as the board may direct, an officer named and known as the registrar of vital statistics of the District of Columbia, but who may be designated registrar, and who shall, under the direction of said board, keep a full and cor-

rect record of vital statistics, issue such permits as are hereinafter required, make and publish a weekly statement of births, marriages, and deaths in said District, and perform such other duties as are hereinafter provided.

Clergymen, magistrate or others to report marriages within forty-eight hours.

Second. That it shall be the duty of every clergyman, magistrate, or other person who shall perform any marriage ceremony within the District of Columbia, to report each marriage ceremony solemnized by him to the registrar aforesaid, within forty-eight hours thereafter, giving the full name, age, color, occupation, birthplace (State or country), and legal residence of each person married, and the date of such marriage.

Births to be reported within six days, &c.

Third. That any physician, accoucheur, midwife, or other person in charge who shall attend, assist, or advise at the birth of any child within the District of Columbia, shall report to the registrar aforesaid, within six days thereafter, stating distinctly the date of birth, sex, and color of the child or children born, its or their physical condition, whether still-born or not, the full name, nativity, and residence of the parents, and the maiden name of the mother of such child or children.

Deaths to be reported within twenty-four hours, and nature of report.

Fourth. That whenever any person shall die within the District of Columbia it shall be the duty of the physician attending such person during his or her last sickness, or of the coroner of the District when the case comes under his official notice, to furnish and deliver to the undertaker, or other person superintending the burial of said deceased person, a certificate, duly signed, setting forth, as far as the same may be ascertained, the name, age, color, sex, nativity (giving State or country), occupation, whether married or single, duration of residence in the District of Columbia, cause, date, and place of death (giving street and number), and duration of last sickness of such deceased person. And it shall be the duty of the undertaker, or other person in charge of the burial of such deceased person, to state in said certificate the date and place of burial, and having signed the same, to forward it to the registrar aforesaid within twenty-four hours after such death: *Provided*, That in case of death from any infectious or contagious disease said certificate shall be so made and forwarded within eight hours thereafter.

Permits required for interment or disinterment of the dead body of any human being or disposition thereof.

Fifth. That no interment or disinterment of the dead body of any human being, or disposition thereof in any tomb, vault, or cemetery shall be made within the District of Columbia without a permit therefor, granted by the board of health of said District, nor otherwise than in accordance therewith. And no sexton or other person shall assist in or assent to, or allow any such interment or disinterment to be made until such permit shall be given, as aforesaid; and it shall be the duty of every sexton or other person having charge of any burying ground, cemetery, tomb, or vault, as aforesaid, who shall receive any such permit, to preserve and return the same to the registrar aforesaid, before 6 o'clock, p. m. of the Saturday following the day of burial; and no sexton, undertaker, or other person shall bury, or cause to be buried, the body of any deceased

Sextons of cemeteries to return permits to registrar on the Saturday following the burial.

No burials to be made except

in known burial grounds.

person within the District of Columbia, except in such grounds as are now known and used as burial-grounds, or such as shall hereafter be by law designated and authorized to be used as such.

No dead body to be conveyed from, in, to, or through the District without permit therefor.

Sixth. That no dead body, or part of the dead body of any human being shall be in any manner carried or conveyed from, in, to, or through the District of Columbia, by any person, or by means of any boat, vessel, car, stage, or other vehicle, or by any public or private conveyance, without a permit therefor first granted by the board of health of said District; and when the remains of any deceased person are to be conveyed, transferred, or removed beyond the limits of the District of Columbia, it shall be the duty of the person, or agent or officer of the corporation having charge of the conveyance, transfer, or removal, to detach, sign and return the coupon attached to said permit to the registrar of vital statistics of the board of health aforesaid, before 5 o'clock p. m. of the Saturday following the conveyance, transfer, or removal of said remains: *Provided*, That the same effect may be given by said board to a burial or transit permit issued by the proper authority of any other place or jurisdiction, when the death of the person named in the permit shall have occurred within such place or jurisdiction.

Agent of corporation having charge of transportation to return coupon attached to permit to registrar.

Health officer to make certificate in case of death without the attendance of a physician.

Seventh. That whenever a permit for burial is applied for, in case of death without the attendance of a physician, or if it be impossible to obtain a physician's certificate, it shall be the duty of the health-officer to investigate the cause and circumstances of such death, to make and sign the certificate required by section 4 of these regulations, and if not satisfied as to the cause and circumstances of such death, he shall so report to the Board of Health, who shall refer the case to the coroner of the District for investigation and report, and said coroner is hereby required to make such investigation and report.

Physicians, accouchers, undertakers, &c., to register at board of health.

Eighth. That it shall be the duty of every physician, accoucher, midwife, undertaker, sexton or superintendent of any cemetery, or other person having charge of the same, practicing medicine or doing business within the District of Columbia, to register his or her name in a book or books to be provided for such purpose, at the office of the board of health of said District, giving full name, residence and place of business, and in case of removal from one place to another in said District, to make change in said register accordingly.

Penalty for violating the foregoing ordinances.

Ninth. That any person who shall violate, or aid and abet in violating, any of the provisions of the foregoing regulations, shall, upon conviction thereof by competent judicial authority, be punished by a fine of not less than twenty-five nor more than two hundred dollars for each and every such offense.

Repeal of inconsistent rules and ordinances.

Tenth. That all rules, regulations, and ordinances heretofore passed by this board inconsistent with the provisions of these regulations be, and the same are hereby, repealed.

These regulations to take effect on and after August 1, 1874.

Eleventh. That these regulations shall take effect and be in force on and after the first day of August, A. D 1874.

DISTRICT OF COLUMBIA, BOARD OF HEALTH,
Washington, August 28, 1874.

Physicians to register upon license or diploma.

It is hereby ordered that physicians required to register their names under the eighth regulation of the board, to secure a full and correct record of vital statistics, do so upon a license received from some chartered medical society, or upon a diploma received from some medical school or institution.

Defining the expression "physical condition."

Second. That the expression "physical condition," as employed in the statute heretofore enacted by the legislative assembly of the District, and incorporated in the third regulation, be defined as follows: "*The general physical condition*," whether healthy or unhealthy. But in no case will the board require in the enforcement of this rule that sick-bed or confidential communications made to physicians be revealed in the report required by this third regulation.

Penalties to be enforced against physicians who have not registered.

Third. That on and after the fifteenth day of next month, by which time all physicians of the city may have registered according to the requirements of the board, the regulation with regard to penalties be rigidly enforced; and that up to that date the regulation with regard thereto, as far as any violations thereof have occurred, and as far as this board is concerned, as prosecutors, the same be not enforced.

Acts of the legislative assembly, District of Columbia, affecting the Health Department.

CHAP. XLVIII.—An act in relation to reports of births within the District of Columbia.

Be it enacted by the legislative assembly of the District of Columbia, That it shall be the duty of every physician, accoucheur, or midwife, who shall attend at the birth of any infant within the District of Columbia, to forward a report to the board of health of said District within six days after such birth, stating distinctly the date of birth, the sex and color of the child thus born, its physical condition, whether still-born or not, and the name and nativity of the parents of such child; and any such physician, accoucheur, or midwife, who shall fail to report as herein required, shall be punished by a fine of not less than five nor more than ten dollars for each and every such offense.

SEC. 2. *And be it further enacted*, That all fines imposed under the provisions of this act shall be for the use of the District of Columbia.

Approved August 18, 1871.

CHAP. LIX.—An act in relation to draining certain lots, and for other purposes.

Be it enacted by the legislative assembly of the District of Columbia, That any person or persons owning any lot or lots bordering on a public or private sewer, will henceforth be required to drain such lot or lots into the sewer bordering thereon, and also drain all slops and water-closets into such sewer whenever the board of health shall decide upon the necessity for so doing.

SEC. 2. *And be it further enacted*, That if any person or persons owning such lot or lots shall neglect or refuse to comply with the require-

ments of the first section of this act within thirty days after a written notice has been served upon him or them by a member of the sanitary metropolitan police, under authority or instruction from the board of health, or if such lot or lots be vacant, and no owner or agent can be found within the District, after a written notice has been posted upon the lot or lots for the period aforesaid by a member of said sanitary police, then the board of health shall cause the said premises to be properly drained to the satisfaction of the board of public works, and the cost thereof, including the proportionate cost of such private sewer as may be thus made, shall be chargeable to the property and be a lien thereon, to be collected in the same manner as other special taxes on real estate are collected.

SEC. 3. *And be it further enacted*, That where it has been found necessary to drain into a private sewer, the party owning or constructing such private sewer shall be entitled to such remuneration as may be deemed just by the board of public works, and the premises drained shall be assessed for such remuneration, which shall be collected as provided for in section two.

SEC. 4. *And be it further enacted*, That all acts or parts of acts inconsistent with this act be, and the same are hereby, repealed.

Approved August 21, 1871.

CHAP. CVIII.—An act prescribing the duties of certain officers for the District of Columbia, and fixing their compensation.

* * * * * * *

SEC. 13. *And be it further enacted*, That it shall be the duty of the coroner to hold an inquest over any person found dead in the District of Columbia, when the manner and cause of death shall not be already known as accidental, or in the course of nature. No coroner's jury shall receive any fee or compensation for services as such, and said coroner is hereby authorized and empowered to issue his certificates to the auditor for the payment of such expenses as may be necessary for the interment of any person over whom he has held an inquest, and whose body is not claimed by friends or relatives: *Provided*, That the amount of such expenses shall not exceed the sum of ten dollars. He shall make a monthly report to the board of health of the number of inquests held by him during the month last past before said report, with a full description, as far as may be, of the age and sex of persons, color and nationality, the cause and mode of their death, and such other particulars as may be necessary to their identification, in case of strangers and unknown persons. He shall also, immediately after holding any inquest, deposit in some bank in the city of Washington, subject to the order of the governor, all moneys, all other property, and all other effects, with the property clerk of the police department, which shall be found upon the person of those over whom he shall hold inquest, as hereinbefore provided. He shall receive a salary of two thousand dollars per annum, and give bond, to be approved by the governor, in the sum of five thousand dollars, conditioned for the faithful performance of his duties.

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Approved August 23, 1871.

CHAP. IV.—An act for the prevention of diseases in the District of Columbia.

Be it enacted by the legislative assembly of the District of Columbia, That it shall be the duty of the board of health of the District of Columbia, whenever in their judgment the said District is threatened with, or affected by, any formidable epidemic, infectious or contagious disease, to issue or cause to be issued such orders, regulations, and instructions as may in their judgment be deemed effective for the prevention or removal of such disease; which orders, regulations, and instructions shall be advertised in at least two daily papers in the District of Columbia for a period of thirty days; said orders, regulations, and instructions to be and remain in full force and effect until by the said board revoked: *Provided*, That the same may from time to time be modified in such manner as, in the judgment of said board, shall be deemed necessary; said orders, regulations, and instructions to be subject to the approval of the governor.

SEC. 2. *And be it further enacted*, That the orders, regulations, and instructions aforesaid shall include orders, regulations, and instructions for the speedy interment of the dead; for house to house visitation; for the dispensing of disinfectants to the poor, which may be calculated to prevent the spread of such disease; for vaccination; for the isolation of any person afflicted with such disease, and affording such persons afflicted or threatened with such disease such aid or hospital accommodations as circumstances may require; said orders, regulations, and instructions shall further include directions for cleansing and purifying, ventilating and disinfecting dwellings, alleys, gutters, privies, cesspools, and the like; clothing, bedding, furniture, and the like, or, in case of necessity, in their judgment, the destruction of such clothing, bedding, or furniture of a textile nature: *Provided*, That in the event of the bedding, clothing, or furniture of poor persons, they shall be reasonably compensated for the loss of the same out of any moneys in the treasury of the board of health not otherwise appropriated.

SEC. 3. *And be it further enacted*, That whenever, in their opinion, the complete isolation of any person suffering from any such disease (the same being an inmate of any tenement-house, lodging-house, boarding-house, or hotel in the District of Columbia) cannot be secured by other means, such persons shall be removed as expeditiously as possible, under direction of the board of health, to the public hospital for treatment, and any person suffering from any dangerous infectious or contagious disease, or any person having the care, charge, or control of such diseased person, who shall refuse to comply with the provisions of this section, or who shall resist the enforcement thereof by proper authority, shall be liable to a fine of not less than ten dollars, nor more than fifty dollars; and in case of the person having charge or control of such diseased person, to imprisonment in the District jail for a period of not more than thirty days, in addition to the fine aforesaid.

SEC. 4. *And be it further enacted*, That the proprietor of any tenement-house, lodging-house, boarding-house, or hotel in the District of Columbia shall, in the event of any person living in such house becoming afflicted with any such disease, at once notify the board of health thereof, in writing. For a refusal to give the notice herein provided, the person so offending shall be liable to a fine of not less than ten dollars nor more than fifty dollars for each offense.

SEC. 5. *And be it further enacted*, That any person suffering from any such infectious or contagious disease, who shall willfully expose himself

in any street, public place, or conveyance, or any person having the care, charge, or control of such diseased person, or any owner or driver of any such conveyance, who does not immediately provide for the disinfection of the same, after it has conveyed such diseased person, and any person who gives, lends, sells, transmits, or exposes any clothing, bedding, rags, or other things which have been exposed to infection, shall, on conviction, be liable to a penalty of not less than ten dollars nor more than one hundred dollars.

SEC. 6. *And be it further enacted*, That any person who shall let to any other person any house, room, or part of a house in which any patient has been confined by reason of such disease, without having such room, house, or part of a house completely disinfected to the satisfaction of the board of health, as certified by them, such person shall be liable to a penalty of not less than ten dollars nor more than fifty dollars for each offense.

SEC. 7. *And be it further enacted*, That all fines imposed by the provisions of this act shall be recovered as other fines are recovered for the use of the District of Columbia.

SEC. 8. *And be it further enacted*, That the expenses incurred in carrying the provisions of this act into effect, shall be paid out of the treasury of the board of health.

SEC. 9. *And be it further enacted*, That all acts and parts of acts of the legislative assembly of the District of Columbia inconsistent with the provisions of this act be, and the same are, hereby repealed.

SEC. 10. *And be it further enacted*, Whereas an emergency exists, therefore this act shall take effect on its approval by the governor.

Approved June 19, 1872.

VITAL STATISTICS.

The labor in this branch of the department has progressed favorably during the year. The records are complete, as nearly as possible, to date, and certificates all arranged and filed in regular order.

There are now on file in this office 27,000 certificates of death; 25,000 certificates of birth; 4,000 certificates of marriage; 2,300 certificates of still-births; 900 certificates of foreign deaths, and a large number of transfers showing removal of bodies from one cemetery to another, or beyond the limits of the District, after first interment. This mass of original papers, accumulating from year to year, should be carefully gone over, comparison with the records made, and then all be filed in a fire-proof vault. I have not clerical force sufficient, at the present time, to enter upon this work of comparison, but would urge that, if possible, an additional clerk be provided next year.

Our mortality list for the year shows 4,207 deaths to have occurred in the District; and in addition to this, 155 persons dying beyond the limits of the District have been brought here for interment. There were 4,030 births, 1,035 marriages, and 358 still-births reported, and all have been properly examined, recorded, and placed on file.

The total mortality of 4,207 shows an annual death-rate per 1,000 per annum of 23.372, a decrease of 102, or 2.367 per cent., as compared with last year. The deaths range, according to color and sex, as follows: 1,007 white males; 988 white females; 1,025 colored males; 1,096 colored females; (1 female color unknown). Total white decedents 2,085; annual death-rate per 1,000 (white population 120,000) 17.375; total colored decedents 2,121; annual death-rate (colored population 60,000) 35.35.

The population of this District as per census of 1870 was 91,567 whites,

and 40,133 colored. By the census of 1880, it is shown to be 118,236 whites, and 59,402 colored; an increase in ten years of 45,938, a prcentage of 34.88 for total population; 26,669, or a percentage of 29.1 for the white; 19,269, or a percentage of 48 for the colored. The average annual increase has been for the white 2.6 per cent.; for the colored 4, and for the total population 3.037 per cent.

Estimating our population on these ratios of increase, and for the past five years, during which time we have obtained a correct record of deaths, we obtain the following figures:

Years.	Population.			Deaths.			Death-rate.		
	White.	Colored.	Total.	White.	Colored.	Total.	White.	Colored.	Total.
1876	106,741	50,859	157,600	2,090	2,072	4,162	19.58	40.74	26.35
1877	109,505	53,870	162,375	2,190	2,014	4,204	20.00	37.39	25.89
1878	112,340	54,960	167,300	2,167	2,068	4,235	19.29	37.63	25.32
1879	115.247	57,053	172,300	2,196	2,113	4,309	19.06	37.03	25.00
1880	118,236	59,402	177,638	2,085	2,121	4,207	17.63	35.71	23.68

The above figures substantiate our oft repeated assertion that the death-rate in this District is decreasing year by year.

During the first five years the death-rate of the white population has decreased 2 in the 1,000 of persons living, the colored 5, and for total population the decrease has been 2.67.

The following statement of mortality by color and sex, showing the total deaths, number dying of the age of 5 years and over; 20 years and over, and 40 years and over, with percentage of each to the total number of deaths for each year, shows a gradual increase in the ages of the decedents. For instance, among the white males for the year ending June 30, 1876, the percentage of the decedents of the age of five years and over to the total number of deaths of white males is 59.6; for the year ending June 30, 1880, this percentage is 64.8 an increase of 5.2 per cent.; of those 20 years and over the increase is from 53 to 58.4 or 5.4; of those 40 years and over the increase is from 35.1 to 41.9 or 6.8. This improvement is shown among white females and also among both sexes of the colored race, though not so great among the latter as the former.

	White males, year ending June 30—					White females, year ending June 30—				
	1876.	1877.	1878.	1879.	1880.	1876.	1877.	1878.	1879.	1880.
Total deaths	1,108	1,149	1,123	1,130	1,097	982	1,041	1,044	1,066	988
5 years of age and over.										
Number of deaths	660	725	683	689	711	557	621	653	647	592
Percentage to total deaths	59.6	63.1	60.8	61.0	64.8	56.7	59.7	62.5	60.7	59.9
20 years of age and over.										
Number of deaths	588	633	568	552	641	467	522	541	535	529
Percentage to total deaths	53.0	55.1	50.6	48.8	58.4	47.6	50.1	51.8	50.2	53.5
40 years of age and over.										
Number of deaths	389	432	380	384	459	299	339	354	334	351
Percentage to total deaths	35.1	37.6	33.8	34.0	41.9	30.4	31.6	33.9	31.3	35.5

	Colored males, year ending June 30—					Colored females, year ending June 30—				
	1876.	1877.	1878.	1879.	1880.	1876.	1877.	1878.	1879.	1880.
Total deaths	1,008	990	1,007	1,051	1,025	1,064	1,024	1,061	1,062	1,096
5 years of age and over.										
Number of deaths	397	417	394	430	407	468	518	504	523	537
Percentage to total deaths	39.4	42.1	39.1	40.9	39.7	44.0	50.6	47.5	49.2	49.0
20 years of age and over.										
Number of deaths	321	337	311	344	325	365	396	374	424	434
Percentage to total deaths	31.8	34.0	30.9	32.7	31.7	34.3	38.7	35.2	39.9	39.6
40 years of age and over.										
Number of deaths	175	206	197	211	186	204	221	208	230	237
Percentage to total deaths	17.4	20.8	19.6	20.2	18.1	19.2	21.6	19.6	21.6	21.6

Both the foregoing statements, as well as all the subsequent statements and tables showing number of deaths, causes, ages, &c., are based upon a re-examination and classification of all the death certificates in this office, and are not founded upon any previously published reports. Much time and care has been spent on this work, and it is confidently believed that all of these tables are substantially correct.

Of the total deaths *2,085, or 49.57 per cent., were white persons, and 2,121, or 50.43 per cent., colored. Of the white decedents, 1,097, or 26.08 per cent. (total mortality), were males, and 988, or 23.49 per cent., females. Of the colored, 1,025, or 24.37 per cent., were males, and 1,096, or 26.06 per cent., females. These percentages are to total mortality. Stated according to color alone, 52.61 per cent. of white decedents were males, and 47.39 per cent. females; 48.32 per cent. of the colored were males, and 51.68 females. Stated by sex, 2,122, or 50.45 per cent., of decedents, were males, and 2,084 or 49.55 per cent., females.

In Table I we have exhibited, according to nomenclature, order, and class, the causes of the deaths of the 4,207 decedents. There are 267 specific names of diseases given, arranged in 22 orders and 5 classes. In 3 cases the cause of death was not ascertained, and in one case the color, as well as disease, was not determined.

I. ZYMOTIC DISEASES.

The total number of deaths occurring last year from zymotic diseases was 962, or 22.84 per cent. of the total mortality. Of this number 465, or 22.30 per cent. of their mortality, were of whites, and 497, or 23.43 per cent. of their mortality, colored. Of the whites, 237, or 21.60 per cent. of their mortality, were males, and 228, or 23.08 per cent. of their mortality, females. Of the colored, 258, or 25.17 per cent. of their mortality, were males, and 239, or 21.80 per cent. of their mortality, females. Under the head of miasmatic diseases there are shown 822 deaths, or 85.55 per cent. of the total zymotic, and 10.54 per cent. of the total deaths. There are 23 specific diseases registered under the miasmatic order. The principal ones are as follows, with their several percentages to the total miasmatic: small-pox 19 deaths, or 2.31 per cent.; croup 45, or 5.47; diphtheria 29, or 3.53; scarlet fever 28, or 3.41; typhoid fever 84, or 10.22; malarial fevers 68, or 8.27; diarrheal diseases 459, or

* The death of one infant is recorded that could not be classed with either color. This is omitted from these numbers and percentages.

55.84 per cent. Of the last there were 198 from cholera infantum, or 43.14 per cent. of the total diarrheal, and 24.09 per cent. of the total miasmatic; whooping-cough 50, or 6.08 per cent. of the miasmatic. But one death occurred from mumps and one from measles. From inanition there were 109 deaths. Undoubtedly many of these cases may have been charged to congenital debility, or to some disease engendered during the period of utero-gestation. From syphilis there were but 18 deaths, and 10 of these were congenital. From alcoholism but 7 deaths, 6 white males and 1 white female. Table I gives the number of decedents, classed according to color and sex and age, as also death-rates from each of these several diseases.

II.—CONSTITUTIONAL DISEASES.

Constitutional diseases claim 1,103 of the total number of decedents, or 26.22 per cent. of the total mortality. These are arranged in two orders, with 43 specific names; 513, or 46.51 per cent., were white, and 590, or 53.49 per cent., were colored. Under the diathetic order of this class there were 132 decedents, 71 of which number died of cancers. Arranged by color and sex these decedents were as follows: White males, 21; white females, 29; colored males, 5, and colored females, 16. From cancer of uterus 20 deaths occurred, 9 white and 11 colored; being 31 per cent. among the white females dying of cancers, and 68.8 per cent. among the colored. Of cancer of the breast there were 5 deaths, 4 white and 1 colored; of the stomach 7, white 5 and colored 2; of the face 7, white 6, colored 1; of the liver 6, white 5, colored 1. From the tubercular diseases there were 971 deaths, and from phthisis alone there were 746, or 17.73 per cent. of the total mortality. Arranged according to color and sex the number of decedents are as follows: white males, 116; white females, 168; colored males, 173, and colored females, 239. These figures give an annual death-rate per 1,000 of 2.78 for the white, and 6.87 for the colored population, and 16 per cent. of the total mortality of the whites, and 19.42 for the colored. In other words, in each 1,000 among the white decedents 160 will be from phthisis, and for the same number of deaths among the colored the number will be 194.

III.—LOCAL DISEASES.

From diseases affecting, specially, the different organs of the body there were 1,584 decedents or 37.65 per cent. of the total mortality. By color and sex these decedents are divided as follows: 445 white males; 363 white females; 386 colored males, and 391 colored females. Being 38.75 per cent. of the total white mortality, and 36.63 per cent. of the total colored. From diseases of the nervous system there were 571 deaths; by color and sex 158 white males, 120 white females, 145 colored males, and 148 colored females; classifying the principal causes of these deaths we have the following: From menngitis and cerebritis 84 deaths; white 51, colored 33; apoplexy, paralysis, and softening of the brain 165; white 102, colored 63; convulsions and trismus 193; white 49, colored 144. From diseases of the heart and circulatory system there were 150 decedents, 50 white males, 36 white females, 30 colored males, and 34 colored females. From anuerism 13 deaths occurred, and 7 of these were of the aorta; 4 white males and 3 colored males. From valvular disease of the heart there 49 deaths; 25 among the whites and 24 among the colored; from angina there were 10 deaths, white 5, colored 5. From diseases affecting the respiratory organs 548

deaths occurred or 13.02 per cent. of the total mortality; white males 117, white females 116, colored males 162, and colored females 153. From bronchitis and pneumonia there were 435 decedents, distributed as follows by color and sex, 86 white males, 87 white females, 129 colored males, and 133 colored females, showing an annual death-rate of 1.44 per 1,000 for the white and 4.37 for the colored population. From these two diseases there were 275 deaths of children under 5 years of age, or 50.18 per cent of the total 435; 67 white or 38.73 per cent. of their total and 208 colored or 79.39 per cent. of their total. From diseases of the digestive organs 223 deaths occurred; 84 of these were of white males, 64 white females, 53 colored males, and 40 colored females. Some of the principal causes under this head and number of deaths from each are as follows: Diseases of the stomach 30, white 18, colored 12; diseases of intestines 74, white 51, colored 23; diseases of the liver 34, white 26, colored 8. From diseases of the urinary organs, 75 persons died, 32 white males, 18 white females, 14 colored males, and 11 colored females. From nephritis there were 14 deaths, nephria or Bright's disease 35, and Addison's disease 1. From diseases of the generative organs there were 9 deaths, locomotory organs 5 and integumentary 3.

IV.—DEVELOPMENTAL DISEASES.

Under this heading are arranged the causes of the deaths 413 persons or 9.82 per cent. of the total mortality; 100 white males, 117 white females, 73 colored males, and 123 colored females. Two hundred and ten children (104 white and 106 colored) died from want of development, during their uterine life. From puerperal diseases, 38 women, 18 white and 20 colored, died; 3 were from parturition direct, 8 from puerperal convulsions, 9 from puerperal fever, and 2 from placenta previa. From old age and lack of nutrition pertaining thereto there were 165 decedents, 95 white and 70 colored.

V.—VIOLENCE.

The total number of deaths from violence during the past year was 142, or 3.37 per cent. of the total mortality. From accidents and negligence, 111 deaths occurred, 46 white males, 12 white females, 37 colored males, and 16 colored females. From drowning there were 14 deaths; railroad accidents, 5; street-car accidents, 2; scalds, 5; burns, 8; overlaid by mother, 11; by careless handling of fire arms, 3; careless use of opium, 3; mercury, 1. This last was an old chronic case; the mercury had impregnated the system, being inhaled by decedent while employed in his trade, that of a hatter. From inhaling carbonic acid gas in lime-kiln 1 person died, and 2 deaths are supposed to have resulted from arsenic; there was 1 judicial execution; there were 9 homicides, and 5 of these were by gunshot wound; there were 21 suicides, 16 white males, 3 white females, and 2 colored males. These two latter are the first suicides among the colored people in this District since the 1st of September, 1874; both of them were under 20 years of age and both committed the act by hanging. There were 7 cases of suicide by hanging; 6 by gunshot wound, and 2 by cutting of throat.

The succeeding tables from 1 to 24, inclusive, are considered sufficiently self-explanatory to obviate the necessity of any special elucidation.

(Owing to failure in securing data from Superintendent of Census table No. 2 has to be omitted.)

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 yrs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS I.—ZYMOTIC DISEASES.																		
Order 1.—*Miasmatic.*																		
Small-pox	19	.452	.050	.216	1	5	7	6	6	13	8	11	1	3	3	3	10	.511
Mumps	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Measles	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Croup	45	1.070	.224	.299	13	14	9	9	27	18	22	23	12	10	9	8	39	1.992
Diphtheria	29	.689	.191	.100	12	11	3	3	23	6	15	14	8	8	2	2	20	1.021
Scarlet fever	28	.666	.174	.116	7	14	3	4	21	7	10	18	3	10	3	3	19	.970
Typhoid fever	84	1.997	.357	.681	20	23	19	22	43	41	39	45	2	2	1	1	6	.306
Intermittent fever	10	.238	.041	.083	2	3	3	2	5	5	5	5	.....	2	1	1	4	.204
Remittent fever	11	.261	.050	.083	4	2	3	2	6	5	7	4	1	.....	1	2	4	.204
Typho-malarial fever	20	.475	.116	.100	10	4	4	2	14	6	14	6	.....	.....	2	.....	2	.102
Malarial fever	27	.642	.083	.282	4	6	3	14	10	17	7	20	2	4	3	3	12	.613
Cerebro-spinal meningitis	12	.285	.075	.050	6	3	2	1	9	3	8	4	5	1	2	.....	8	.408
Dysentery	58	1.379	.266	.432	16	16	16	10	32	26	32	26	2	8	8	5	23	1.175
Diarrhœa	157	3.732	.457	1.693	30	25	54	48	55	102	84	73	17	13	47	44	121	6.180
Cholera morbus	7	.166	.050	.017	4	2	1	.....	6	1	5	2	.....	.....	.....	.....	.....	.....
Cholera infantum	198	4.706	.871	1.344	55	50	51	42	105	93	106	92	55	50	51	42	198	10.112
Entero-colitis	39	.927	.135	.382	6	10	15	8	16	23	21	18	6	10	14	8	38	1.941
Tonsillitis	12	.285	.075	.050	4	5	2	1	9	3	6	6	3	3	1	1	8	.408
Whooping-cough	50	1.188	.149	.531	4	14	14	18	18	32	18	32	4	14	13	18	49	2.503
Erysipelas	9	.214	.066	.017	4	4	.....	1	8	1	4	5	2	2	.....	.....	4	.204
Carbuncle	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Pyæmia	3	.071	.017	.017	2	.....	1	.....	2	1	3	.....	.....	.....	.....	.....	.....	.....
Septicæmia	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Total miasmatic diseases	822	19.539	3.461	6.723	205	212	212	193	417	405	417	405	123	140	163	141	567	28.958
Order 2.—*Enthetic.*																		
Syphilis, congenital	10	.238	.017	.133	1	1	6	2	2	8	7	3	1	1	6	2	10	.511
Syphilis, secondary	3	.071	.008	.033	1	.....	2	.....	1	2	3	.....	.....	.....	.....	.....	.....	.....
Syphilis, tertiary	5	.119	.033	.017	4	.....	1	.....	4	1	5	.....	.....	.....	.....	.....	.....	.....
Total enthetic diseases	18	.428	.058	.183	6	1	9	2	7	11	15	3	1	1	6	2	10	.511

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 1.—*Miasmatic.*																												
Small-pox	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2
Mumps	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Measles	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Croup	....	....	....	1	....	1	....	....	....	....	3	1	....	1	3	2	2	2	1	1	5	4	1	1	2	1	2	....
Diphtheria	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	3	1	1	2	2	....	1	....	2	....	....
Scarlet fever	....	....	....	....	2	1	1	1	....	1	....	....	2	2	1	1	2	....	....	....	1	2	....	....	1	7	....	....
Typhoid fever	....	5	2	3	7	1	4	4	4	2	3	....	11	8	9	7	3	5	1	3	2	3	1	1	1	1	1	....
Intermittent fever	....	1	....	....	....	....	....	....	....	....	1	....	....	1	1	....	1	....	....	1	....	....	....	....	....	....	....	....
Remittent fever	1	....	1	....	1	1	1	....	....	....	....	....	2	1	2	....	....	....	....	....	....	....	1	....	....	1	....	....
Typho-malarial fever	4	1	....	....	....	....	2	....	....	1	1	1	4	2	3	1	2	1	....	....	1	1	....	....	1	....	....	1
Malarial fever	....	1	....	3	2	1	....	1	....	1	1	2	2	3	1	6	....	....	....	2	....	1	....	....	....	....	....	1
Cerebro-spinal meningitis	....	....	....	....	....	2	....	....	1	....	1	1	1	2	1	1	....	....	....	....	....	....	....	....	1	....	....	....
Dysentery	1	7	4	1	3	2	2	3	6	....	....	2	10	9	6	6	2	....	5	2	1	....	....	....	....	1	....	....
Diarrhœa	9	9	13	10	2	2	10	6	3	1	13	12	14	12	36	28	2	2	2	3	1	....	3	1	....	....	....	2
Cholera morbus	2	1	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cholera infantum	21	16	23	14	8	11	6	4	2	4	....	2	31	31	29	20	1	....	2	2	....	....	2	....	....	....	....	....
Entero-colitis	2	4	6	2	1	2	1	3	1	....	1	....	4	6	8	5	....	....	....	....	....	....	....	....	1	....	....	....
Tonsillitis	....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	1	....	....	....	....	....	....	1	....	....	....	....	....
Whooping-cough	1	1	....	2	1	2	2	2	1	2	2	....	3	5	4	4	....	....	2	....	....	....	1	....	....	2	....	....
Erysipelas	....	1	....	1	1	....	....	....	....	....	....	....	1	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....
Carbuncle	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pyæmia	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Septicæmia	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total miasmatic diseases	42	49	49	37	28	26	29	25	19	12	28	21	89	87	106	83	15	13	14	16	13	13	10	4	8	15	4	6
Order 2.—*Enthetic.*																												
Syphilis, congenital	....	....	....	....	....	....	1	....	1	....	1	....	1	....	2	....	....	1	....	....	....	....	....	....	....	....	....	....
Syphilis, secondary	....	....	....	....	....	....	1	....	1	....	....	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....
Syphilis, tertiary	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	....	....
Total enthetic diseases	....	....	....	....	....	....	2	....	2	....	1	....	2	....	3	....	....	1	1	....	1	....	....	....	....	2	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total, second quarter.				January.				February.				March.				Total, third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 1.—*Miasmatic.*																												
Small-pox	....	....	1	2	1	5	4	2	....	....	2	1	....	....	....	1	1	5	6	4	....	....	....	....	....	....	....	....
Mumps	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Measles	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Croup	9	7	4	2	...	1	1	....	1	2	...	1	1	1	....	1	2	4	1	2	2	2	....	1	....	....	1	1
Diphtheria	2	7	1	2	1	....	1	..	2	1	....	1	1	....	....	....	4	1	1	1	2	1	....	..	1	....	....	....
Scarlet fever	4	9	....	....	....	....	....	....	1	1	1	1	....	1	....	1	1	2	1	2	....	1	1	1	....	....	....	....
Typhoid fever	6	9	3	4	1	3	...	2	1	....	....	1	...	....	3	2	2	3	3	5	....	....	....	2	1	2	1	2
Intermittent fever	1	....	.	1	1	1	...	....	....	....	....	....	...	....	....	....	1	1	....	....	....	....	....	....	....	....	1	....
Remittent fever	....	1	1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Typho-malarial fever	4	2	....	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....
Malarial fever	....	1	....	3	....	....	1	1	....	....	....	1	....	....	....	....	....	....	1	2	....	....	....	....	....	1	....	1
Cerebro-spinal meningitis	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	3	....	1	....
Dysentery	3	1	5	2	....	1	1	....	....	....	1	....	....	....	....	....	....	1	2	....	1	....	....	....	2	1	3	1
Diarrhœa	3	2	5	6	1	1	1	....	1	2	2	1	2	2	....	....	4	5	3	1	....	....	1	....	1	1	1	5
Cholera morbus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cholera infantum	1	....	4	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	1	7	2	4	3
Entero-colitis	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	1
Tonsillitis	....	....	1	....	1	....	....	....	....	1	....	....	....	2	....	....	1	3	....	....	....	2	....	....	1	....	....	....
Whooping-cough	....	2	3	....	....	1	3	..	1	1	1	2	...	1	2	2	1	3	6	4	....	3	....	3	....	....	....	5
Erysipelas	1	....	....	....	1	....	....	....	....	1	....	....	1	1	....	....	2	2	....	..	....	1	....	....	....	....	....	....
Carbuncle	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Pyæmia	....	....	....	....	1	....	..	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....
Septicæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total miasmatic diseases	36	41	28	26	8	14	12	6	7	9	7	9	6	8	6	7	21	31	25	22	9	11	3	8	18	7	12	19
Order 2.—*Enthetic.*																												
Syphilis, congenital	....	1	....	....	....	....	1	....	....	....	....	....	....	....	2	....	....	....	3	....	....	....	....	....	....	....	....	1
Syphilis, secondary	....	...	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Syphilis, tertiary	3	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	1	....	....	....	....	....	....	....
Total enthetic diseases	3	1	1	....	....	....	1	....	....	....	....	....	....	....	3	....	....	....	4	....	1	..	....	....	....	....	....	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 1.—*Miasmatic.*																												
Small-pox	....	....	....	....	....	....	....	....	....	2	....	....	1	....	1	....	....	....	2	1	....	....	....	1	....	1	....	1
Mumps	...	....	....	....	...	....	1	...	...	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Measles	....	...	...	....	....	..	....	...	....	....	....	..	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Croup	....	....	....	1	2	2	1	3	2	....	4	5	2	3	3	3	4	4	1	....	2	2	1	....	2	1	....	....
Diphtheria	2	1	1	....	5	2	1	....	....	....	1	1	3	3	....	....	4	....	1	1	1	4	....	..	....	1	....	....
Scarlet fever	....	....	....	....	....	1	1	1	...	....	....	....	1	1	....	....	....	3	2	....	1	4	1	1	1	2	..	2
Typhoid fever	....	1	3	2	1	3	4	6	...	....	....	1	....	....	....	....	....	1	....	....	1	1	....	..	1	....	1	..
Intermittent fever	....	1	1	1	....	1	2	1	....	2	1	1	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Remittent fever	2	....	....	....	2	....	....	....	....	....	1	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....
Typho-malarial fever	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....
Malarial fever	2	1	1	2	2	2	1	3	2	1	1	2	....	2	2	....	....	....	....	....	....	1	....	....	....	....	..	1
Cerebro-spinal meningitis	....	....	....	....	4	....	1	....	4	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....	1	....
Dysentery	....	4	....	1	3	5	3	2	1	3	3	2	...	4	2	2	....	1	3	1	....	....	....	....	1	....	....	..
Diarrhœa	8	5	8	8	9	6	10	13	13	13	35	28	3	....	12	14	1	....	....	2	....	....	....	....	....	....	....	....
Cholera morbus	2	1	1	....	2	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cholera infantum	14	17	14	16	23	19	18	20	49	39	39	29	6	11	10	12	....	....	2	....	....	....	....	1	....	....	....	....
Entero-colitis	....	3	7	2	1	4	7	3	4	6	13	6	1	3	1	2	....	1	....	....	....	....	....	....	....	1	....	....
Tonsillitis	2	....	....	....	3	2	....	....	....	2	....	....	1	....	1	1	1	1	....	....	....	....	....	....	....	1	....	....
Whooping-cough	....	1	1	2	....	4	1	10	4	7	8	12	....	5	2	4	....	1	2	2	...	....	1	...	....	1	....	....
Erysipelas	....	....	....	....	....	1	....	....	1	2	....	....	1	....	....	....	....	....	....	....	....	....	..	...	....	....	....	....
Carbuncle	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pyæmia	....	....	....	...	....	....	....	....	....	....	....	...	....	....	....	....	....	....	....	...	....	....	....	....	....	....	....	....
Septicæmia	....	....	....	....	...	....	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total miasmatic diseases	32	35	38	35	59	53	53	62	80	77	107	88	20	33	35	39	11	12	14	7	5	12	4	3	7	6	3	4
Order 2.—*Enthetic.*																												
Syphilis, congenital	...	....	1	1	....	....	1	2	1	1	4	1	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....
Syphilis, secondary	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Syphilis, tertiary	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total enthetic diseases	....	....	1	1	1	....	1	2	1	1	4	1	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 1.—*Miasmatic.*																												
Small-pox	....	....	1	2	....	1	....	....	....	....	1	..	....	....	1	1	....	....	....	....	....	1	....	....	....	....	....	....
Mumps	....	....	..	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Measles	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Croup	1	3	..	1	...	1	...	..	....	....	..	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Diphtheria	4	3	....	1	....	....	1	....	....	....	....	....	....	..	..	....	....	....	....	..	....	....	....	....	....	....	....	....
Scarlet fever	4	2	....	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Typhoid fever	3	2	2	3	4	5	6	5	4	2	3	6	4	2	1	2	....	1	2	1	..	4	....	1	2	4	1	2
Intermittent fever	1	1	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	..	....	....	1	....	....	....	....	....
Remittent fever	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....
Typho-malarial fever	1	...	....	....	3	....	1	....	2	2	....	....	1	...	...	2	2	...	1	....	1	1	....	....	....	....	....	....
Malarial fever	....	....	....	3	....	....	....	2	....	....	....	1	1	1	....	1	....	....	....	1	1	1	....	....	....	....	....	1
Cerebro-spinal meningitis	...	1	....	....	....	....	....	....	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Dysentery	1	....	1	....	1	....	1	....	....	....	1	....	....	3	....	1	4	....	2	....	3	1	1	4	3	2	2	....
Diarrhœa	2	....	....	....	....	....	....	....	....	2	1	1	1	....	1	....	1	2	....	....	2	1	1	....	3	2	3	2
Cholera morbus	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	..	1	....	....	....	2	1	1	....	....	....	....	....
Cholera infantum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Entero-colitis	...	....	....	....	....	....	....	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Tonsillitis	....	2	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Whooping-cough	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Erysipelas	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	1	....	....
Carbuncle	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Pyæmia	1	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Septicæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Total miasmatic diseases	19	14	7	12	8	9	10	7	8	7	7	9	9	7	3	8	8	5	6	2	10	10	5	5	10	9	6	5
Order 2.—*Enthetic.*																												
Syphilis, congenital	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Syphilis, secondary	....	....	....	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Syphilis, tertiary	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Total enthetic diseases	....	....	....	....	....	....	2	....	2	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																								
Order 1.—*Miasmatic.*																								
Small-pox			1																2				1	
Mumps																								
Measles																								
Croup																								
Diphtheria																								
Scarlet fever																								
Typhoid fever	1		3	1		1											6	7	8	5	4	3	2	5
Intermittent fever																			1				1	
Remittent fever	1	1															1	1						
Typho-malarial fever		1															3			2	2	2	1	
Malarial fever				1				1									2	1		2		1		2
Cerebro-spinal meningitis																		1			1			1
Dysentery	1	1				1			1								8	6	3	3	2	1	2	
Diarrhœa	4	5	1	1													3	3	2	1	3	3	3	
Cholera morbus																	2	2			2			
Cholera infantum																								
Entero-colitis																			1					
Tonsillitis																	1							
Whooping-cough																								
Erysipelas	1	1															1			1				
Carbuncle																	1							
Pyæmia	1																1		1					
Septicæmia																						1		
Total miasmatic diseases	9	9	5	3		2		1	1								29	21	18	14	14	11	10	8
Order 2.—*Enthetic.*																								
Syphilis, congenital																								
Syphilis, secondary																								
Syphilis, tertiary	1																2				2		1	
Total enthetic diseases	1																2				3		1	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.													
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																								
Order 1.—*Miasmatic.*																								
Small-pox	....	1	....	....	....	....	....	1	1	4	5	5	.....	1	2	1	....	....	....	....	....	....	....	....
Mumps	....	....	....	....	....	....	....	....	.....	.....	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Measles	....	....	....	....	....	....	....	....	.....	.....	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Croup	....	....	....	....	....	....	....	....	12	13	9	9	1	1	.....	.....	....	....	....	....	....	....	....	....
Diphtheria	....	....	....	....	....	....	....	....	12	10	2	3	.....	1	1	.....	....	....	....	....	....	....	....	....
Scarlet fever	....	....	....	....	....	....	....	....	5	13	3	3	2	1	.....	1	....	....	....	....	....	....	....	....
Typhoid fever	1	4	....	3	....	....	....	....	10	8	9	6	9	9	10	16	1	6	....	....	....	....	....	....
Intermittent fever	1	....	....	....	....	....	....	....	1	3	1	2	....	.....	2	.....	1	....	....	....	....	....	....	....
Remittent fever	1	1	....	....	....	....	....	....	3	.....	3	2	.....	2	.....	.....	1	....	....	....	....	....	....	....
Typho-malarial fever	....	2	....	....	1	....	....	....	4	.....	3	.....	5	2	1	2	1	2	....	....	....	....	..	....
Malarial fever	....	....	....	2	....	....	....	....	2	6	3	7	2	.....	.....	7	....	....	....	....	....	....	....	....
Cerebro-spinal meningitis	....	....	....	....	....	....	....	....	4	3	2	.....	2	.....	.....	1	....	....	....	....	....	....	....	....
Dysentery	2	1	....	2	....	....	1	....	4	10	9	6	7	5	7	4	5	1	....	....	....	....	....	....
Diarrhœa	4	6	2	3	1	....	....	....	18	16	45	44	6	5	9	4	6	4	....	....	....	....	....	....
Cholera morbus	....	....	1	....	....	....	....	....	.....	1	.....	.....	1	.....	1	.....	3	1	....	....	....	....	....	....
Cholera infantum	....	....	....	....	....	....	....	....	52	49	50	41	3	1	1	1	....	....	....	....	....	....	....	....
Entero-colitis	....	....	....	....	....	....	....	....	6	10	13	8	.....	.....	2	....	....	....	....	....	....	....	....	....
Tonsillitis	....	....	....	....	....	....	....	....	2	3	1	.....	2	2	1	1	....	....	....	....	....	....	....	....
Whooping-cough	....	....	....	....	....	....	....	....	4	14	14	18	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Erysipelas	1	2	....	....	....	....	....	....	2	2	.....	.....	2	1	.....	1	....	1	....	....	....	....	....	....
Carbuncle	....	....	....	....	....	....	....	....	1	.....	.....	.....	....	.....	.....	....	....	....	....	....	....	....	....	....
Pyæmia	....	....	....	....	....	....	....	....	.....	.....	.....	.....	2	.....	1	.....	....	....	....	....	....	....	....	....
Septicæmia	....	....	....	..	....	....	....	....	.....	.....	.....	.....	..	1	.....	.....	....	....	....	....	....	....	....	....
Total miasmatic diseases	10	17	3	10	2	....	1	1	143	165	174	154	44	32	38	39	18	15	....	....	....	....	....	....
Order 2.—*Enthetic.*																								
Syphilis, congenital	....	....	....	....	....	....	....	....	1	1	5	2	.....	.....	1	.....	....	....	....	....	....	....	....	....
Syphilis, secondary	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	2	.....	....	....	....	....	....	....	....	....
Syphilis, tertiary	..	....	....	....	....	....	....	....	1	.....	.....	.....	3	.....	1	.....	....	....	....	....	....	....	....	....
Total enthetic diseases	....	....	....	....	....	....	....	....	2	1	5	2	4	.....	4	.....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5yr's of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS I.—ZYMOTIC DISEASES.																		
Order 3.—*Dietic.*																		
Inanition	109	2.591	.257	1.295	18	13	36	42	31	78	54	55	18	13	36	42	109	5.567
Purpura	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Delirium tremens	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Intemperance	6	.143	.050	.....	5	1	.....	.....	6	.....	5	1	.....	.....	.....	.....	.....	.....
Total dietic diseases	117	2.782	.323	1.295	24	15	36	42	39	78	60	57	18	13	36	42	109	5.567
Order 4.—*Parasitic.*																		
Thrush	5	.119	.017	.050	2	.....	1	2	2	3	3	2	2	.....	1	2	5	.255
Total parasitic diseases	5	.119	.017	.050	2	.....	1	2	2	3	3	2	2	.....	1	2	5	.255
Total zymotic diseases	962	22.868	3.859	8.250	237	228	258	239	465	497	495	467	144	154	206	187	691	35.291
CLASS II.—CONSTITUTIONAL DISEASES.																		
Order I.—*Diathetic.*																		
Gout	5	.119	.041½	.....	3	2	.....	.....	5	.....	3	2	.....	.....	.....	.....	.....	.....
Rheumatism	13	.309	.058	.100	5	2	4	2	7	6	9	4	.....	.....	.....	.....	.....	.....
Rheumatic disease of heart	6	.143	.033	.033	3	1	.....	2	4	2	3	3	.....	.....	.....	.....	.....	.....
Dropsy	7	.166	.025	.066	2	1	1	3	3	4	3	4	.....	.....	1	.....	1	.051
Anasarca	23	.547	.091	.199	2	9	9	3	11	12	11	12	1	1	.....	.....	2	.102
Cancer, abdominal organs	6	.143	.041½	.017	4	1	1	.....	5	1	5	1	.....	.....	.....	.....	.....	.....
breast	5	.119	.033	.017	.....	4	.....	1	4	1	.....	5	.....	.....	.....	.....	.....	.....
uterus	20	.475	.075	.183	.....	9	.....	11	9	11	.....	20	.....	.....	.....	.....	.....	.....
ovary	2	.047	.008	.017	.....	1	.....	1	1	1	.....	2	.....	.....	.....	.....	.....	.....
stomach	7	.166	.041½	.033	4	1	1	1	5	2	5	2	.....	.....	.....	.....	.....	.....
liver	6	.143	.041½	.017	2	3	1	.....	5	1	3	3	.....	.....	.....	.....	.....	.....
brain	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
face	7	.166	.050	.017	3	3	.....	1	6	1	3	4	.....	.....	.....	.....	.....	.....
neck	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
face and neck	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
mouth	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
rectum	2	.047	.017	.....	.....	2	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....
fauces	2	.047	.017	.....	1	1	.....	.....	2	.....	1	1	.....	.....	.....	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

1879.

Cause of death.	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 3.—*Dietic.*																												
Inanition	1	5	7	7	4	2	6	5	2	....	4	4	7	7	17	16	....	1	1	3	....	1	2	2	1	....	2	1
Purpura	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Delirium tremens	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Intemperance	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	1	....	....	....
Total dietic diseases	1	6	7	7	4	2	6	5	2	....	4	4	7	8	17	16	....	1	1	3	1	1	2	2	2	....	2	1
Order 4.—*Parasitic.*																												
Thrush	....	....	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....
Total parasitic diseases	....	....	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....
Total zymotic diseases	43	55	57	45	32	28	37	30	23	12	33	25	98	95	127	100	15	15	16	19	16	14	12	6	12	15	6	7
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order I.—*Diathetic.*																												
Gout	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rheumatism	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Rheumatic disease of heart	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Dropsy	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Anasarca	....	....	3	1	....	1	....	....	....	4	2	....	....	5	5	1	1	....	....	....	....	2	....	....	....	2	2	....
Cancer, abdominal organs	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....
breast	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
uterus	....	2	....	1	....	....	....	2	....	....	....	....	....	2	....	3	....	....	....	....	....	1	....	....	....	....	....	2
ovary	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....
stomach	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	1	....
liver	....	1	....	....	....	....	1	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....
brain	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
face	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	....	....	....
neck	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
face and neck	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
mouth	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
rectum	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
fauces	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total, third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 3.—*Dietic.*																												
Inanition	1	2	5	6	2	1	....	....	3	1	5	6	2	....	....	2	7	2	5	8	....	2	2	2	....	....	1	3
Purpura	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Delirium tremens	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Intemperance	2	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....
Total dietic diseases	3	2	5	6	2	1	....	....	3	2	5	6	4	....	....	2	9	3	5	8	2	2	2	2	....	....	1	3
Order 4.—*Parasitic.*																												
Thrush	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Total parasitic diseases	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
Total zymotic diseases	43	44	34	32	10	15	13	6	11	11	12	15	10	8	9	9	31	34	34	30	12	13	5	10	18	7	13	23
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order 1.—*Diathetic.*																												
Gout	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	2	....	....	1	....	....	....	1	....	....	....
Rheumatism	....	....	....	1	1	....	....	....	....	....	....	....	....	....	2	....	1	....	2	....	....	....	2	1	1	1	....	....
Rheumatic disease of heart	1	....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	1	....	....	2	1	1	....	....	....	....	....	....
Dropsy	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	....	....	....	1	....	....	....	1
Anasarca	1	4	2	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	1	....	1	....	....	....	....	2
Cancer, abdominal organs	....	1	1	....	1	....	....	....	....	....	....	....	1	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....
breast	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	1	....	1
uterus	....	1	....	2	....	....	....	2	....	2	....	....	....	....	....	....	....	2	....	2	....	2	....	2	....	2	....	1
ovary	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
stomach	1	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	....	....	....	....
liver	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	2	....	....	1	....	....	....	1	....	....	....
brain	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
face	1	1	....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
neck	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
face and neck	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
mouth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
rectum	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
fauces	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 3.—*Dietic.*																												
Inanition	3	....	6	7	3	2	9	12	17	11	32	36	1	2	2	5	....	....	1	1	....	....	1	....	....	....	....	....
Purpura	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Delirium tremens	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Intemperance	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total dietic diseases	3	....	6	7	5	2	9	12	17	11	32	36	1	2	2	5	....	....	1	1	....	....	1	....	....	....	....	....
Order 4.—*Parasitic.*																												
Thrush	....	....	....	1	....	....	....	1	2	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total parasitic diseases	....	....	....	1	....	....	....	1	2	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total zymotic diseases	35	35	45	44	65	55	63	77	100	89	144	127	21	35	39	45	11	12	15	8	5	12	5	3	7	6	3	4
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order 1.—*Diathetic.*																												
Gout	1	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rheumatism	3	1	....	....	4	2	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rheumatic disease of heart	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Dropsy	1	....	....	1	1	....	....	3	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Anasarca	....	....	....	....	1	....	1	2	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cancer, abdominal organs	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
breast	....	....	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
uterus	....	....	....	1	....	4	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
ovary	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
stomach	1	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
liver	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
brain	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
face	1	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
neck	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
face and neck	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
mouth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
rectum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
fauces	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																												
Order 3.—*Dietic.*																												
Inanition																												
Purpura														1														
Delirium tremens																					1							
Intemperance										1			2				2								1			
Total dietic diseases										1			2	1			2				1				1			
Order 4.—*Parasitic.*																												
Thrush																												
Total parasitic diseases																												
Total zymotic diseases	19	14	7	12	8	9	12	7	10	8	8	9	12	8	3	8	11	5	6	2	11	10	5	5	11	9	6	5
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order I.—*Diathetic.*																												
Gout																										2		
Rheumatism					1							2		1			1		1		3	1	1					
Rheumatic disease of heart												1	1	1						1	1				1			
Dropsy												1					1				1			1				
Anasarca			1	1		1				1	1	2		1	1		1					1	3					
Cancer, abdominal organs														1			1				1		1		2			
breast																		1				1				1		1
uterus												1		1		1		5		3		2		3		1		1
ovary														1										1				
stomach											1										2	1			2			
liver																		1							2	1		
brain																						1						
face																	1							1	1	1		
neck																	1											
face and neck																	1											
mouth																												
rectum									1									1										
fauces																		1										

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to **80** years.				**80** to **90** years.				**90** to **100** years.				Above **100** years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																								
Order 3.—*Dietic.*																								
Inanition																								
Purpura																		1						
Delirium tremens																					1			
Intemperance																	1	1			2			
Total dietic diseases																	1	2			3			
Order 4.—*Parasitic.*																								
Thrush																								
Total parasitic diseases																								
Total zymotic diseases	10	9	5	3		2		1	1								32	23	18	14	20	11	11	8
CLASS II.—CONSTITUTIONAL DISEASES.																								
Order I.—*Diathetic.*																								
Gout	3																3	1						
Rheumatism			2														2	2	3		1			2
Rheumatic disease of heart																	2			1		1		1
Dropsy				1						1							2	1		1				
Anasarca		3	3			1											1	2	5	1		2	1	1
Cancer, abdominal organs																	2	1			1			
breast		1																2						
uterus				1				1										4		3				
ovary																		1						
stomach								1									3	1	1					
liver		1	1														2		1			1		
brain																								
face	1	1				1											2	1				1		1
neck																	1							
face and neck																	1							
mouth	1																1							
rectum																		2						
fauces	1																1	1						

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS I.—ZYMOTIC DISEASES.																								
Order 3.—*Dietic.*																								
Inanition	...	...	...	...	...	...	...	...	18	13	34	41	.....	.....	2	1	...	...	...	...	...	...	...	...
Purpura	...	...	...	...	...	...	...	...	.....	1	.....	.....	.....	.....	.....	.....	...	...	...	...	...	...	...	...
Delirium tremens	...	...	...	...	...	...	...	...	.....	.....	.....	.....	.....	.....	.....	.....	1	...	...	...	...	...	...	...
Intemperance	2	...	...	...	...	...	...	...	1	.....	.....	.....	1	.....	.....	.....	3	1	...	...	...	...	...	...
Total dietic diseases	2	...	...	...	...	...	...	...	19	14	34	41	1	.....	2	1	4	1	...	...	...	...	...	...
Order 4.—*Parasitic.*																								
Thrush	...	...	...	...	...	...	...	...	2	.....	1	2	.....	.....	.....	.....	...	...	...	...	...	...	...	...
Total parasitic diseases	...	...	...	...	...	...	...	...	2	.....	1	2	.....	.....	.....	.....	...	...	...	...	...	...	...	...
Total zymotic diseases	12	17	3	10	2	....	1	1	166	180	214	199	49	32	44	40	22	16	....	....	....	....	....	....
CLASS II.—CONSTITUTIONAL DISEASES.																								
Order 1.—*Diathetic.*																								
Gout	...	1	...	...	...	...	...	...	1	2	.....	.....	1	.....	.....	.....	1	...	...	...	...	...	...	...
Rheumatism	1	...	1	...	...	...	...	...	2	.....	.....	1	1	2	4	1	2	...	...	...	...	...	...	...
Rheumatic disease of heart	1	...	...	...	...	...	...	...	1	.....	.....	.....	2	1	.....	2	...	...	...	...	...	...	...	...
Dropsy	...	...	...	2	...	...	...	...	.....	.....	1	1	1	1	.....	2	1	...	...	...	...	...	...	...
Anasarca	...	3	2	...	...	...	...	...	2	6	1	2	.....	3	8	1	...	...	...	...	...	...	...	...
Cancer, abdominal organs	1	...	1	...	...	...	...	...	.....	.....	.....	.....	3	.....	1	.....	1	1	...	...	...	...	...	...
breast	...	2	...	1	...	...	...	...	.....	1	.....	.....	.....	3	.....	1	...	...	...	...	...	...	...	...
uterus	...	5	...	8	...	...	...	...	.....	1	.....	1	.....	5	.....	10	...	3	...	...	...	...	...	...
ovary	...	...	...	1	...	...	...	...	.....	.....	.....	.....	.....	.....	.....	1	...	1	...	...	...	...	...	...
stomach	1	...	...	1	...	...	...	...	1	.....	.....	.....	.....	.....	1	1	3	1	...	...	...	...	...	...
liver	...	2	...	...	...	...	...	...	.....	1	.....	.....	2	.....	1	.....	...	2	...	...	...	...	...	...
brain	...	1	...	...	...	...	...	...	.....	1	.....	.....	.....	.....	.....	.....	...	...	...	...	...	...	...	...
face	1	1	...	...	...	...	...	...	.....	1	.....	.....	3	1	.....	1	...	1	...	...	...	...	...	...
neck	...	...	...	...	...	...	...	...	.....	.....	.....	.....	1	.....	.....	.....	...	...	...	...	...	...	...	...
face and neck	...	...	...	...	...	...	...	...	.....	.....	.....	.....	.....	.....	.....	.....	1	...	...	...	...	...	...	...
mouth	...	...	...	...	...	...	...	...	.....	.....	.....	.....	1	.....	.....	.....	...	...	...	...	...	...	...	...
rectum	...	...	...	...	...	...	...	...	.....	2	.....	.....	.....	.....	.....	.....	...	...	...	...	...	...	...	...
fauces	...	...	...	...	...	...	...	...	.....	.....	.....	.....	1	1	.....	.....	...	...	...	...	...	...	...	...

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 y'rs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS II.—CONSTITUTIONAL DISEASES.																		
Order I.—*Diathetic*—Continued.																		
Cancer, omentum	2	.047	.017	.....	.....	2	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....
groin	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
hip	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
left antrim	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
parotid gland	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
lungs	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
pharynx	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
frontal bones	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
bladder	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Anæmia	6	.143	.033	.033	1	3	.....	2	4	2	1	5	1	.....	.....	1	2	.102
Gangrene idiopathic	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Total diathetic diseases	132	3.128	.705	.780	38	47	19	28	85	47	57	75	2	1	1	1	5	.255
Order II.—*Tubercular.*																		
Scrofula	25	.594	.041½	.332	1	4	14	6	5	20	15	10	.....	3	9	4	16	.817
Psoas abscess	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Rickets	18	.428	.025	.249	2	1	9	6	3	15	11	7	2	1	9	6	18	.919
Tuberculosis	30	.713	.133	.232	9	7	7	7	16	14	16	14	6	1	6	1	14	.715
Marasmus and tabes mesenterica	90	2.139	.324	.847	20	19	25	26	39	51	45	45	19	19	24	24	86	4.392
Phthisis pulmonalis	746	17.732	2.772	6.839	166	168	173	239	334	412	339	407	2	6	32	41	81	4.137
Hæmoptysis (from tuberculosis)	4	.095	.017	.033	2	.....	1	1	2	2	3	1	.....	.....	.....	.....	.....	.....
Hydrocephalus	23	.547	.066	.249	3	5	12	3	8	15	15	8	3	5	10	3	21	1.072
Tubercular meningitis	24	.570	.124½	.149	6	9	2	7	15	9	8	16	4	6	2	5	17	.868
enteritis	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
peritonitis	5	.119	.025	.033	1	2	1	1	3	2	2	3	.....	1	.....	.....	1	.051
bronchitis	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	1	.051
Hip disease	2	.047	.008	.017	1	.....	.....	1	1	1	1	1	.....	.....	.....	.....	.....	.....
Pott's disease	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
Total tubercular diseases	971	23.080	3.552	9.014	213	215	245	298	428	543	458	513	37	42	93	85	257	13.126
Total constitutional diseases	1,103	26.218	4.257	9.794	251	262	264	326	513	590	515	588	39	43	94	86	262	13.381

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order 1.—*Diathetic*—Continued.																												
Cancer, omentum						1								1														
groin											1				1													
hip																	1											
left antrim																							1					
parotid gland																								1				
lungs																										1		
pharynx																												
frontal bones																												
bladder																												
Anæmia	1					1				1			1	2														1
Gangrene, idiopathic																	1											
Total diathetic diseases	1	4	3	3	2	5	1	3	2	5	3	....	5	14	7	6	5	3	....	....	....	4	1	1	2	5	4	4
Order 2.—*Tubercular*.																												
Scrofula			1	1		1		1						1	1	2		1						1			1	1
Psoas abscess																					1							
Rickets				2	1	1					1		1	1	1	2			1					1				
Tuberculosis				2	1	1	1		2		1	1	3	1	2	3	1							1				1
Marasmus and tabes mesenterica	7	3	3	4	3	5	5	2	3	2	2	2	13	10	10	8	2	1	1	2	....	....	1	3	....	1	2	1
Phthisis pulmonalis	11	13	13	20	11	10	10	19	14	9	12	19	36	32	35	58	9	13	4	13	14	9	16	16	16	20	11	17
Hæmoptysis (from tuberculosis)																				1	1							
Hydrocephalus			2	1								1			2	2		1	1			1	1				1	
Tubercular meningitis	1	2			1				1				3	2						1		1				2		1
enteritis																												
peritonitis											1				1													
bronchitis																												
Hip disease																												
Pott's disease					1								1															
Total tubercular diseases	19	18	19	30	18	18	16	22	20	11	17	23	57	47	52	75	12	16	7	17	16	11	18	22	16	23	15	21
Total constitutional diseases	20	22	22	33	20	23	17	25	22	16	20	23	62	61	59	81	17	19	7	17	16	15	19	23	18	28	19	25

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order 1.—*Diathetic*—Continued.																												
Cancer, omentum																												
groin																												
hip	1																											
left antrim			1																									
parotid gland				1																								
lungs		1																										
pharynx					1												1											
frontal bones																					1							
bladder																									1			
Anæmia				1																								1
Gangrene idiopathic	1																											
Total diathetic diseases	7	12	5	5	5	4		3		4	1	1	3	1	3		8	9	4	4	6	4	3	5	4	4		6
Order 2.—*Tubercular.*																												
Scrofula		1	1	2			1	1	1		1				6		1		8	1			3				1	
Psoas abscess	1																											
Rickets			1	1			1				1	1							2	1	1						2	1
Tuberculosis	1			2		1	3			1	1		2			1	2	2	4	1	2	1			1	1		
Maramus and tabes mesenterica	2	2	4	6	1			1		2			2	2	2	1	3	4	2	2	1	1	4	1			2	2
Phthisis pulmonalis	39	42	31	46	18	11	18	21	22	18	16	28	14	15	30	19	54	44	64	68	16	18	14	19	11	22	15	25
Hæmoptysis (from tuberculosis)	1			1									1				1										1	
Hydrocephalus		2	3		1		1										1		1		1	1	3				1	
Tubercular meningitis		3		2	1				1	1		1		2	1	1	2	3	1	2	1	1					1	2
enteritis															1				1									
peritonitis						1			1									1							1	1		
bronchitis																												
Hip disease									1								1											
Pott's disease																												
Total tubercular diseases	44	50	40	60	21	13	24	23	25	22	19	30	19	19	40	22	65	54	83	75	22	22	24	20	13	24	23	30
Total constitutional diseases	51	62	45	65	26	17	24	26	25	26	20	31	22	20	43	22	73	63	87	79	28	26	27	25	17	28	23	36

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								Age of decedent.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order 1.—*Diathetic*—Continued.																												
Cancer, omentum	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
groin	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
hip	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
left antrim	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
parotid gland	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
lungs	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
pharynx	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
frontal bones	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
bladder	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Anæmia	....	1	....	....	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Gangrene idiopathic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diathetic diseases	8	4	....	2	18	12	3	13	1	1	....	....	1	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....
Order 2.—*Tubercular.*																												
Scrofula	....	2	....	1	....	2	4	1	....	....	4	2	....	3	3	1	....	....	1	1	....	....	....	....	....	....	1	....
Psoas abscess	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rickets	....	....	3	1	1	....	5	2	1	....	3	1	1	....	3	3	....	1	1	2	....	....	2	....	....	....	....	....
Tuberculosis	....	2	1	1	3	4	1	1	3	1	....	....	3	....	2	1	....	....	2	....	....	....	1	....	....	....	1	....
Marasmus and tabes mesenterica	1	2	3	7	2	3	9	10	17	14	12	17	2	3	5	4	....	2	5	2	....	....	....	1	....	....	2	....
Phthisis pulmonalis	10	10	14	23	37	50	43	67	1	2	9	6	1	....	13	17	....	2	4	9	....	2	3	4	....	....	3	5
Hæmoptysis (from tuberculosis)	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hydrocephalus	1	2	2	1	2	3	6	1	2	2	6	2	....	1	1	....	....	....	1	1	1	2	1	....	....	....	1	....
Tubercular meningitis	....	....	....	1	1	1	1	3	1	2	1	3	1	4	1	1	2	....	....	....	....	....	....	....	....	....	....	1
enteritis	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
peritonitis	....	....	....	1	1	1	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
bronchitis	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
Hip disease	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pott's disease	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Total tubercular diseases	12	18	23	38	47	64	70	88	25	21	36	31	8	12	28	28	2	5	14	15	2	4	7	5	....	....	8	6
Total constitutional diseases	20	22	23	40	65	76	73	101	26	22	36	31	9	12	28	28	2	5	15	16	2	4	7	5	....	....	8	6

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS II.—CONSTITUTIONAL DISEASES.																												
Order 1.—*Diathetic*—Continued.																												
Cancer, omentum	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
groin	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
hip	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
left antrim	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
parotid gland	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
lungs	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
pharynx	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
frontal bones	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
bladder	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Anæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	1	....	1	....	....	....	....	....	....
Gangrene idiopathic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Total diathetic diseases	....	1	1	1	1	1	....	....	....	3	3	7	2	7	1	1	8	10	1	5	9	8	6	7	9	6	....	2
Order 2.—*Tubercular.*																												
Scrofula	....	....	2	1	1	....	1	....	....	....	1	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....	....
Psoas abscess	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Rickets	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tuberculosis	....	....	....	3	....	1	....	1	....	1	1	....	1	3	....	....	....	....	....	2	2	....	....	....	....	....	....	....
Marasmus and tabes mesenterica	....	....	1	....	....	....	....	2	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Phthisis pulmonalis	....	....	7	10	8	15	12	29	39	50	42	71	38	39	32	40	38	23	22	19	12	17	18	15	23	11	5	7
Hæmoptysis (from tuberculosis)	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....
Hydrocephalus	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tubercular meningitis	1	1	....	2	....	2	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
enteritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
peritonitis	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....	....	....	....	....
bronchitis	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hip disease	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pott's disease	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total tubercular diseases	1	1	12	16	9	18	13	34	39	51	44	72	43	44	34	40	41	23	22	22	14	17	19	15	23	11	5	7
Total constitutional diseases	1	2	13	17	10	19	13	34	39	54	47	79	45	51	35	41	49	33	23	27	23	25	25	22	32	17	5	9

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS II.—CONSTITUTIONAL DISEASES.																								
Order 1.—*Diathetic*—Continued.																								
Cancer, omentum																						1		
groin																							1	
hip																	1							
left antrim																			1					
parotid gland																				1				
lungs		1																				1		
pharynx																	1							
frontal bones					1																			
bladder																	1							
Anæmia																		2		1		1		
Gangrene idiopathic																	1							
Total diathetic diseases	6	7	6	2	1	2	....	2	....	1	....	....	....	....	....	....	27	21	11	8	2	8	2	5
Order 2.—*Tubercular.*																								
Scrofula																		1		1			2	
Psoas abscess																	1							
Rickets																								
Tuberculosis						1											3	1		1		3	1	
Marasmus and tabes mesenterica																								
Phthisis pulmonalis	6	7	2	7	....	....	1	....	....	....	....	....	....	....	....	....	83	66	62	81	65	44	47	44
Hæmoptysis (from tuberculosis)																	1			1			1	
Hydrocephalus																								
Tubercular meningitis																					1			
enteritis																								
peritonitis																	1					1		
bronchitis																								
Hip disease																					1			
Pott's disease																								
Total tubercular diseases	6	7	2	7	...	1	1	....	....	....	....	....	....	....	....	....	89	68	62	84	67	48	51	44
Total constitutional diseases	12	14	8	9	1	3	1	2	....	1	....	....	....	....	....	....	116	89	73	92	69	56	53	49

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.				W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS II.—CONSTITUTIONAL DISEASES.																								
Order 1.—*Diathetic*—Continued.																								
Cancer, omentum										1				1										
groin															1									
hip													1											
left antrim															1									
parotid gland																1								
lungs										1														
pharynx													1											
frontal bones	1												1											
bladder													1											
Anæmia									1	1				2		2								
Gangrene idiopathic													1											
Total diathetic diseases	6	15	4	13					8	18	2	5	21	20	17	23	9	9						
Order 2.—*Tubercular.*																								
Scrofula									1	3	11	4		1	3	2								
Psoas abscess									1															
Rickets									2	1	8	6			1									
Tuberculosis		1		1					6	5	5	2	2		2	5	1	2						
Marasmus and tabes mesenterica					1				18	15	23	26	1	4	2		1							
Phthisis pulmonalis	6	37	12	34	2		1		54	73	61	83	77	67	111	154	35	28	1	2				
Hæmoptysis (from tuberculosis)	1											1	2		1									
Hydrocephalus									3	5	12	3												
Tubercular meningitis									5	9	2	7					1							
enteritis											1													
peritonitis			1							1				1	1	1	1							
bronchitis												1												
Hip disease																1	1							
Pott's disease													1											
Total tubercular diseases	7	38	13	35	3		1		90	112	123	133	83	73	121	163	40	30	1	2				
Total constitutional diseases	13	53	17	48	3		1		98	130	125	138	104	93	138	186	49	39	1	2				

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 y'rs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS III.—LOCAL DISEASES.																		
Order 1.—*Nervous system.*																		
Meningitis, cerebral	62	1.474	.307	.415	17	20	15	10	37	25	32	30	15	15	14	6	50	2.554
spinalis	3	.071	.017	.017	1	1	1	.....	2	1	2	1	1	1	1	.....	3	.153
Cerebritis	22	.523	.116	.133	6	8	3	5	14	8	9	13	3	5	3	4	15	.766
Cerebral effusion	20	.475	.133	.066	8	8	3	1	16	4	11	9	6	8	3	1	18	.919
Softening of brain	11	.261	.041	.100	4	1	3	3	5	6	7	4	.....	.....	.....	.....	.....	.....
Apoplexy	71	1.688	.373	.432	30	15	10	16	45	26	40	31	.....	.....	.....	.....	.....	.....
Paralysis, general	54	1.283	.257	.382	19	12	10	13	31	23	29	25	.....	.....	.....	2	2	.102
Paraplegia	4	.095	.033	.....	1	3	.....	.....	4	.....	1	3	.....	.....	.....	.....	.....	.....
Hemiplegia	24	.570	.133	.133	8	8	.....	8	16	.....	8	16	.....	.....	.....	.....	.....	.....
Progressive locomotor ataxia	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Insanity, monomania, dementia, melancholia, mania	17	.404	.116	.050	9	5	1	2	14	3	10	7	.....	1	.....	.....	1	.051
Epilepsy	9	.214	.025	.100	3	.....	2	4	3	6	5	4	.....	.....	1	.....	1	.051
Sunstroke	2	.047	.008	.017	.....	1	1	.....	1	1	1	1	.....	.....	.....	.....	.....	.....
Convulsions	142	3.375	.299	1.760	18	18	50	56	36	106	68	74	18	18	49	54	139	7.099
Laryngismus stridulus	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	.051
Tetanus idiopathic	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
Trismus nascentium	51	1.212	.108	.631	11	2	24	14	13	38	35	16	11	2	24	14	51	2.605
Cerebral anæmia	2	.047	.008	.017	.....	1	1	.....	1	1	1	1	.....	1	1	.....	2	.102
Congestion of the brain	71	1.688	.290	.598	19	16	20	16	35	36	39	32	10	14	15	11	50	2.554
Myelitis	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Chorea	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Tumor of brain	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Total diseases of nervous system	571	13.573	2.307	4.864	158	120	145	148	278	293	303	268	65	66	111	92	334	17.058
Order 2.—*Circulatory.*																		
Pericarditis	9	.214	.041	.066	4	1	2	2	5	4	6	3	.....	.....	.....	.....	.....	.....
Endocarditis	6	.143	.050	.....	4	2	.....	.....	6	.....	4	2	.....	.....	.....	.....	.....	.....
Disease of heart (undefined)	25	.594	.133	.149	7	9	2	7	16	9	9	16	.....	.....	.....	.....	.....	.....
Hydropericardium	4	.095	.008	.050	1	.....	2	1	1	3	3	1	.....	.....	.....	.....	.....	.....
Aneurism, aorta	7	.166	.033	.050	4	.....	3	.....	4	3	7	.....	.....	.....	.....	.....	.....	.....
innominata	2	.047	.008	.017	1	.....	.....	1	1	1	1	1	.....	.....	.....	.....	.....	.....
pulmonary artery	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 1.—*Nervous system.*																												
Meningitis, cerebral	4	1	3	1	1	2	2	1	....	2	....	1	5	5	5	3	....	....	1	1	1	2	1	1	....	1	1	1
spinalis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Cerebritis	2	3	....	2	2	1	....	....	....	....	....	1	4	4	....	3	....	....	....	....	....	....	....	1	....	1	....	....
Cerebral effusion	2	1	....	1	1	....	....	....	....	1	....	....	3	2	....	1	1	1	1	....	1	1	....	....	1	....	....	....
Softening of brain	....	....	1	1	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....	....	....	....	....	....	1	....	1	....
Apoplexy	....	1	....	....	1	....	3	1	3	1	1	3	4	2	4	4	2	....	....	1	1	1	....	....	4	2	....	6
Paralysis, general	....	1	....	3	1	....	....	....	2	....	....	1	3	1	....	4	2	1	1	....	1	....	....	3	2	....	2	....
Paraplegia	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....
Hemiplegia	1	....	....	1	1	....	....	2	....	2	....	....	2	2	....	3	....	2	....	1	....	....	....	....	3	2	....	2
Progressive locomotor ataxia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Insanity, monomania, dementia, melancholia, mania	1	....	....	1	1	....	....	....	....	3	....	1	2	3	....	2	....	....	1	....	....	....	....	....	....	....	....	....
Epilepsy	....	....	....	1	....	....	....	....	1	....	....	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....
Sunstroke	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Convulsions	5	2	8	6	....	1	3	2	3	1	2	7	8	4	13	15	1	....	3	6	....	1	2	2	2	1	2	....
Laryngismus stridulus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus idiopathic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Trismus nascentium	1	....	2	....	3	....	1	1	2	....	4	2	6	....	7	3	....	....	8	2	1	1	2	4	1	....	1	....
Cerebral anæmia	....	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Congestion of the brain	6	3	5	1	1	2	1	2	2	....	3	1	9	5	9	4	2	....	....	2	1	....	1	4	....	1	3	2
Myelitis	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chorea	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tumor of brain	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of nervous system	23	13	21	18	12	6	10	9	14	10	10	17	49	29	41	44	10	4	15	14	7	7	6	15	14	9	11	11
Order 2.—*Circulatory.*																												
Pericarditis	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	1	....	....	....	1	1	....	....
Endocarditis	1	....	....	....	1	1	....	....	2	....	....	....	4	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Disease of heart (undefined)	....	2	....	1	....	....	....	1	1	....	....	1	1	2	....	3	1	1	....	....	....	1	1	1	1	3	....	....
Hydropericardium	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1
Aneurism, aorta	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
innominata	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
pulmonary artery	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 1.—*Nervous system.*																												
Meningitis, cerebral	1	3	3	3	3	....	....	....	2	1	2	1	....	1	....	1	5	2	2	2	2	2	2	....	2	4	....	2
spinalis	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Cerebritis	....	1	....	1	1	1	....	....	1	....	....	....	....	....	2	....	2	1	2	....	....	1	....	....	....	1	1	1
Cerebral effusion	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....
Softening of brain	2	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	1	....	....	....	1	....	....	2
Apoplexy	7	3	....	7	2	1	1	1	5	2	1	1	5	2	2	....	12	5	4	2	3	2	....	....	4	1	1	1
Paralysis, general	5	1	3	3	3	1	....	1	....	2	....	....	1	....	2	2	4	3	2	3	2	2	2	2	3	2	3	....
Paraplegia	....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Hemiplegia	3	4	....	3	....	....	....	....	....	1	....	1	....	....	....	....	....	1	....	1	....	....	....	....	1	1	....	....
Progressive locomotor ataxia	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Insanity, monomania, dementia, melancholia, mania	....	....	1	....	2	....	....	....	2	1	....	....	1	....	....	....	5	1	....	....	1	....	....	....	....	....	....	....
Epilepsy	....	....	....	1	2	....	1	1	....	....	....	....	....	....	....	....	2	....	1	1	....	....	....	....	....	....	1	1
Sunstroke	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Convulsions	3	2	7	8	3	1	6	6	1	4	6	7	1	1	4	5	5	6	16	18	....	....	6	2	1	2	4	5
Laryngismus stridulus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Tetanus idiopathic	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Trismus nascentium	2	1	11	6	2	....	2	1	....	....	1	1	....	1	1	1	2	1	4	3	....	....	1	....	1	....	....	....
Cerebral anæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Congestion of the brain	3	1	4	8	1	3	1	....	3	....	2	....	1	....	1	....	5	3	4	....	....	1	1	1	1	2	....	2
Myelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chorea	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Tumor of brain	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of nervous system	31	20	32	40	19	8	11	10	14	11	12	11	9	7	12	9	42	26	35	30	9	8	15	5	14	14	10	14
Order 2.—*Circulatory.*																												
Pericarditis	2	1	....	....	....	....	....	....	....	....	....	....	1	....	....	2	1	....	....	2	1	....	....	....	....	....	....	....
Endocarditis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Disease of heart (undefined)	2	5	1	1	1	....	....	....	1	1	....	....	....	....	....	2	2	1	....	2	1	....	....	....	1	....	1	....
Hydropericardium	....	....	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Aneurism, aorta	1	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	1	....	....	....	2	....	1	....	....	....
innominata	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
pulmonary artery	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 1.—*Nervous system.*																												
Meningitis, cerebral	2	4	3	....	6	10	5	2	6	10	8	2	4	3	3	1	3	2	1	2	2	....	1	....	....	....	1	1
spinalis	1	....	....	....	1	....	....	....	....	1	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebritis	....	....	....	....	....	2	1	1	2	3	2	2	....	1	1	....	....	1	....	....	....	....	....	2	1	....	....	....
Cerebral effusion	2	4	....	....	2	4	2	....	3	5	3	1	1	2	....	....	2	1	....	....	....	....	....	....	....	....	....	....
Softening of brain	....	....	1	....	2	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Apoplexy	....	2	1	2	7	5	2	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Paralysis, general	2	3	....	1	7	7	5	3	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1
Paraplegia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemiplegia	2	....	....	1	3	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Progressive locomotor ataxia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Insanity, monomania, dementia, melancholia, mania	1	1	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Epilepsy	....	....	....	....	....	....	1	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Sunstroke	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Convulsions	1	4	4	8	2	6	14	15	14	17	39	50	3	1	6	3	1	....	3	1	....	....	1	....	....	....	....	....
Laryngismus stridulus	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus idiopathic	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Trismus nascentium	....	....	1	2	1	....	2	2	11	2	24	14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebral anæmia	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Congestion of the brain	1	4	2	1	2	7	3	4	7	10	12	6	2	3	2	2	....	1	1	1	1	....	....	1	....	....	....	1
Myelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Chorea	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tumor of brain	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of nervous system	13	23	12	15	36	45	37	34	44	50	91	75	11	10	12	7	6	5	5	4	3	....	2	3	1	1	1	3
Order 2.—*Circulatory.*																												
Pericarditis	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Endocarditis	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Disease of heart (undefined)	....	1	....	1	2	1	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hydropericardium	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Aneurism, aorta	....	....	....	....	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
innominata	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
pulmonary artery	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 1.—*Nervous system.*																												
Meningitis, cerebral	....	....	1	1	....	....	....	....	....	1	....	2	....	1	....	1	....	1	....	....	1	2	....	....	1	....	....	....
spinalis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebritis	....	....	....	....	....	....	....	1	....	2	....	....	....	....	....	....	....	....	....	....	3	....	....	....	....	....	....	....
Cerebral effusion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Softening of brain	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	....	....	....	1	....	....	....	1	1	....	3
Apoplexy	1	....	....	....	....	....	....	....	2	....	....	2	3	1	1	1	1	2	2	1	9	3	3	3	5	5	3	3
Paralysis, general	....	....	....	1	....	....	1	....	....	....	1	....	3	....	1	1	2	3	....	2	5	1	....	2	3	6	3	3
Paraplegia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....
Hemiplegia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	2	1	....	1	1	2	....	2
Progressive locomotor ataxia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Insanity, monomania, dementia, melancholia, mania	....	....	....	....	....	....	....	....	1	....	....	....	2	1	....	....	3	2	1	1	1	1	....	....	2	....	....	1
Epilepsy	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	2	1	....	....	1	1	....	....	1	....	....	....	....
Sunstroke	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Convulsions	....	....	1	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Laryngismus stridulus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus idiopathic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Trismus nascentium	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebral anæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Congestion of the brain	1	....	1	....	1	....	....	....	....	....	1	1	3	....	....	....	....	1	2	2	3	....	....	....	....	....	....	....
Myelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Chorea	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tumor of brain	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of nervous system	3	....	3	3	1	....	3	2	3	4	2	5	12	3	3	6	11	10	5	7	28	8	3	7	13	15	7	12
Order 2.—*Circulatory.*																												
Pericarditis	....	....	1	1	....	1	....	....	....	....	....	....	....	....	....	1	3	....	....	....	....	....	1	....	1	....	....	....
Endocarditis	1	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Disease of heart (undefined)	....	....	....	....	....	1	....	....	....	1	....	....	1	2	....	1	1	....	1	4	2	1	....	1	2	3	1	1
Hydropericardium	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	1	....
Aneurism, aorta	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	2	....	2	....	....	....	....	....
innominata	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1
pulmonary artery	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 1.—*Nervous system.*																								
Meningitis, cerebral	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	5	.....	.....	.....	.....	.....	2
spinalis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Cerebritis	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	.....	.....	1	.....	.....	.....
Cerebral effusion	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	1	.....	.....	.....
Softening of the brain	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	2	1	1	.....	2	.....	1	.....
Apoplexy	6	3	1	4	3	1	....	2	....	....	....	....	....	....	....	....	16	8	8	5	6	.....	1	.....
Paralysis, general	1	....	1	....	3	1	2	1	2	1	1	....	....	....	....	1	10	5	4	1	2	3	1	.....
Paraplegia	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....
Hemiplegia	3	4	....	2	1	1	....	2	....	....	....	....	....	....	....	....	4	3	.....	2	3	1	.....	1
Progressive locomotor ataxia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....
Insanity, monomania, dementia, melancholia, mania	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	1	1	8	2	.....	1
Epilepsy	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	.....	2	1	.....	.....	2
Sunstroke	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	1	.....	.....	.....	.....	.....
Convulsions	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Laryngismus stridulus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Tetanus idiopathic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Trismus nascentium	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Cerebral anæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Congestion of the brain	1	1	1	2	....	....	....	....	....	....	....	....	....	....	....	....	4	1	1	2	1	.....	1	1
Myelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
Chorea	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Tumor of brain	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Total diseases of nervous system	13	10	4	8	7	3	3	5	2	1	1	....	....	....	....	1	43	26	16	13	26	7	4	7
Order 2.—*Circulatory.*																								
Pericarditis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	1	1	2	.....	.....	.....
Endocarditis	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	.....	.....	.....	.....	.....	.....
Disease of heart (undefined)	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	3	1	1	3	2	1	1
Hydropericardium	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	1	1	.....	.....	.....
Aneurism, aorta	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	.....	3	.....	.....	.....	.....	.....
innominata	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
pulmonary artery	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 1.—*Nervous system.*																								
Meningitis, cerebral	1	....	....	....	....	....	....	1	13	15	15	7	4	5	.....	3	....	....	....	....	....	....	....	....
spinalis	....	....	....	....	....	....	....	....	1	1	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Cerebritis	1	1	....	....	....	....	....	....	3	6	3	5	.....	1	.....	.....	3	1	....	....	....	....	....	....
Cerebral effusion	....	....	....	....	....	....	....	....	5	7	3	1	3	1	.....	.....	....	....	....	....	....	....	....	....
Softening of brain	....	....	1	3	....	....	....	....	.....	.....	1	1	3	.....	2	2	1	1	....	....	....	....	....	....
Apoplexy	7	7	....	10	....	....	1	1	4	.....	2	3	13	11	7	13	13	4	....	....	....	....	1	....
Paralysis, general	5	4	4	9	2	....	....	....	4	2	1	5	9	10	9	8	6	....	....	....	....	....	....	....
Parplegia	1	2	....	....	....	....	....	....	.....	.....	.....	.....	1	2	.....	.....	. .	1	....	....	....	....	....	....
Hemiplegia	1	4	....	5	....	....	....	....	2	.....	.....	1	3	5	.....	7	3	3	....	....	....	....	....	....
Progressive locomotor ataxia	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	.....	....	....	....	....	....	....	....
Insanity, monomania, dementia, melancholia, mania	....	2	....	....	....	....	....	....	1	1	.....	.....	2	2	1	2	6	2	....	....	....	....	....	....
Epilepsy	....	....	....	....	....	....	....	....	.....	.....	1	1	1	.....	1	3	2	....	....	....	....	....	....	....
Sun stroke	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Convulsions	....	....	....	....	....	....	....	....	17	17	50	55	1	1	.....	1	....	....	....	....	....	....	....	....
Laryngismus stridulus	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Tetanus idiopathic	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Trismus nascentium	....	....	....	....	....	....	....	....	11	2	23	14	.....	.....	1	.....	....	....	....	....	....	....	....	....
Cerebral anæmia	....	....	....	....	....	....	....	....	.....	1	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Congestion of the brain	2	1	2	2	....	....	....	....	11	14	16	13	5	2	4	3	3	....	....	....	....	....	....	....
Myelitis	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....
Chorea	....	....	....	....	....	....	....	....	.....	.....	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Tumor of brain	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Total diseases of nervous system	18	21	7	29	2	....	1	2	74	68	118	106	46	40	26	42	38	12	....	....	....	....	1	....
Order 2.—*Circulatory.*																								
Pericarditis	....	....	....	....	....	....	....	....	.....	1	1	2	2	.....	1	.....	2	....	....	....	....	....	....	....
Endocarditis	1	1	....	....	....	....	....	....	2	.....	.....	.....	2	2	.....	.....	....	....	....	....	....	....	....	....
Disease of heart (undefined)	2	3	....	5	....	....	....	....	2	1	.....	.....	4	5	2	7	1	3	....	....	....	....	....	....
Hydropericardium	....	....	1	....	....	....	....	....	.....	.....	.....	.....	.....	.....	2	1	1	....	....	....	....	....	....	....
Aneurism, aorta	....	....	....	....	....	....	....	....	1	.....	.....	.....	2	.....	2	.....	1	....	1	....	....	....	....	....
innominata	....	....	....	1	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	1	....	....	....	....	....	....	....
pulmonary artery	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....	....

TABLE I.—DEATHS. SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 y'rs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS III.—LOCAL DISEASES.																		
Order 2.—*Circulatory*—Continued.																		
Aneurism, femoral	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
popliteal	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
subclavian	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Dilatation of heart	3	.071	.025	.....	1	2	.....	.....	3	.....	1	2	.....	.....	.....	.....	.....	.....
Hypertrophy of heart	12	.285	.050	.100	4	2	3	3	6	6	7	5	.....	.....	.....	.....	.....	.....
Valvular disease of heart	49	1.165	.207	.398	15	10	13	11	25	24	28	21	.....	.....	.....	.....	.....	.....
Fatty degeneration of heart	13	.309	.083	.050	6	4	.....	3	10	3	6	7	.....	.....	.....	.....	.....	.....
Angina pectoris	10	.238	.041	.083	2	3	2	3	5	5	4	6	.....	.....	.....	.....	.....	.....
Embolism	6	.143	.033	.033	1	3	1	1	4	2	2	4	.....	.....	.....	.....	.....	.....
Total circulatory diseases	150	3.565	.714	1.062	50	36	30	34	86	64	80	70	.....	.....	.....	.....	.....	.....
Order 3.—*Respiratory.*																		
Asthma	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Tracheatis	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	.051
Laryngitis	6	.143	.041	.017	3	2	.....	1	5	1	3	3	.....	1	.....	.....	1	.051
Bronchitis	107	2.543	.257	1.262	13	18	38	38	31	76	51	56	7	10	33	34	84	4.290
Pleurisy	5	.119	.017	.050	1	1	1	2	2	3	2	3	.....	.....	.....	.....	.....	.....
Hydrothorax	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Empyemia	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Pneumonia	328	7.796	1.179	3.088	73	69	91	95	142	186	164	164	25	25	66	75	191	9.755
Congestion of the lungs	73	1.735	.307	.597	17	20	23	13	37	36	40	33	6	9	13	7	35	1.788
Hemorrhage of the lungs	11	.261	.033	.116	4	.....	4	3	4	7	8	3	.....	.....	.....	1	1	.051
Œdema of the lungs	3	.071	.025	.....	1	2	.....	.....	3	.....	1	2	.....	.....	.....	.....	.....	.....
Emphysema of the lungs	4	.095	.025	.017	2	1	.....	1	3	1	2	2	.....	.....	.....	.....	.....	.....
Gangrene of the lungs	4	.095	.025	.017	2	1	1	.....	3	1	3	1	.....	1	.....	.....	1	.051
Abscess of the lungs	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Bronchial catarrh	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Pneumo thorax	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Total respiratory diseases	548	13.026	1.934	5.229	117	116	162	153	233	315	279	269	38	47	113	117	315	16.088

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 2.—*Circulatory*—Continued.																												
Aneurism, femoral																										1		
popliteal																												
subclavian																												
Dilatation of heart																									1			
Hypertrophy of heart											1				1		1	1	1						1			1
Valvular disease of heart				1	2					1	1	1	2	1	1	2	3		2				1	1	1		1	2
Fatty degeneration of heart	1								1				2				1	1			1					1		
Angina pectoris					1		1			1			1	1	1									2	1			1
Embolism		2						1		1				3		1							1					
Total circulatory diseases	5	4		2	4	1	1	2	4	3	3	2	13	8	4	6	6	3	3	1	3	1	3	5	6	5	3	5
Order 3.—*Respiratory.*																												
Asthma			1												1													
Tracheatis																						1						
Laryngitis																								1				
Bronchitis	2						3	1			2	2	2		5	3		1	2			1	2	2	3	1	2	6
Pleurisy																								1				
Hydrothorax																						1						
Empyemia																												
Pneumonia	3	2	1	2	2	4	10	1	1	3	6	6	6	9	17	9	2	2	3	2	6	11	2	7	6	5	11	7
Congestion of the lungs	2	2	1			1			4	1			6	4	1			1		1	3	3	3	1			8	2
Hemorrhage of the lungs	1		1	1	1						1		2		2	1	1			1								
Œdema of the lungs																	1	1								1		
Emphysema of the lungs						1								1											2			
Gangrene of the lungs	1												1					1							1			
Abscess of the lungs																												
Bronchial catarrh																			1									
Pneumo thorax																												
Total respiratory diseases	9	4	4	3	3	6	13	2	5	4	9	8	17	14	26	13	4	6	6	4	9	17	7	12	12	7	21	15

TABLE I.—*Deaths.*—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total, second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 2.—*Circulatory*—Continued.																												
Aneurism, femoral	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
popliteal	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...
subclavian	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Dilatation of heart	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	2	...	...	...	...	...	...
Hypertrophy of heart	2	1	1	1	...	...	1	1	...	...	...	...	...	...	...	1	...	...	1	2	1	...	...	...	1	1	...	...
Valvular disease of heart	4	...	4	3	1	...	1	1	2	1	...	2	1	2	1	...	4	3	2	3	2	1	1	1	...	3	3	...
Fatty degeneration of heart	2	2	...	...	1	...	...	...	...	1	...	1	...	...	...	1	1	1	...	2	...	1	...	...	1	...	...	1
Angina pectoris	1	...	...	3	...	1	...	...	...	...	...	...	...	1	...	...	1	...	2	...	...	...	1	...	...	...	...	...
Embolism	...	...	1	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Total circulatory diseases	15	9	9	11	3	1	2	3	3	3	1	3	4	3	2	6	10	7	5	12	5	5	4	1	4	4	4	1
Order 3.—*Respiratory.*																												
Asthma	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Tracheatis	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Laryngitis	...	...	...	1	1	2	...	...	...	...	...	...	...	...	...	...	1	2	...	...	...	...	...	...	2	...	...	...
Bronchitis	3	3	6	8	2	4	2	4	2	5	7	7	1	4	6	8	5	13	15	19	2	1	6	2	1	1	4	1
Pleurisy	...	...	...	1	1	...	1	1	...	...	...	...	...	...	...	...	1	...	1	1	...	...	...	...	...	...	...	...
Hydrothorax	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Empyemia	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...
Pneumonia	14	18	16	16	6	12	12	11	7	8	10	12	20	11	13	17	33	31	35	40	11	3	12	13	3	3	9	11
Congestion of the lungs	3	4	11	4	3	3	1	1	3	6	3	4	...	1	1	1	6	10	5	6	1	1	3	3	1	1	...	...
Hemorrhage of the lungs	1	...	...	1	...	...	...	...	1	...	...	...	...	...	...	1	1	...	...	1	...	...	1	...	...	...	1	...
Œdema of the lungs	1	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Emphysema of the lungs	2	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	1	...	...	...	...	...	...	...	...
Gangrene of the lungs	1	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Abscess of the lungs	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...
Bronchial catarrh	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	..
Pneumo-thorax	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Total respiratory diseases	25	30	34	31	14	21	17	17	13	19	21	23	21	16	20	28	48	56	58	68	14	5	23	18	7	5	14	12

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F;	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 2.—*Circulatory*—Continued.																												
Aneurism, femoral																												
popliteal																												
subclavian			1				1																					
Dilatation of heart						2																						
Hypertrophy of heart					2	1																						
Valvular disease of heart	3	2	2	2	5	6	6	3																				
Fatty degeneration of heart					1	1		1																				
Angina pectoris							1																					
Embolism																												
Total circulatory diseases	3	3	4	3	12	12	12	5																				
Order 3.—*Respiratory*.																												
Asthma																												
Tracheatis									1																			
Laryngitis					2									1														
Bronchitis			2	5	3	2	12	8	5	6	19	16	1	1	10	10	1	2	4	6		1		2				
Pleurisy		1				1																						
Hydrothorax																												
Empyemia																												
Pneumonia	6	5	2	6	20	11	23	30	17	14	36	28	6	6	17	29	1	3	6	10	1	1	6	4		1	1	4
Congestion of the lungs			3		2	2	6	3	3	7	8	2	1	1	1	3		1	4	1	1				1			1
Hemorrhage of the lungs							2									1												
Œdema of the lungs																												
Emphysema of the lungs																												
Gangrene of the lungs							1							1														
Abscess of the lungs																												
Bronchial catarrh															1													
Pneumo-thorax																												
Total respiratory diseases	6	6	7	11	27	16	44	41	25	28	63	46	8	10	29	43	2	6	14	17	2	2	6	6	1	1	1	5

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 2.—*Circulatory*—Continued.																												
Aneurism, femoral	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
popliteal	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
subclavian	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Dilatation of heart	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	1	....	....
Hypertrophy of heart	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	1	1	1	1	....	2	....	1	2	....	....	....	....
Valvular disease of heart	....	....	....	1	1	....	1	3	3	....	5	....	1	1	3	2	2	2	....	1	2	1	3	2	4	2	....	1
Fatty degeneration of heart	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	4	....	....	1	1	1	....	....
Angina pectoris	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1	....	....	1	1	....	....	1	1	1	....
Embolism	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	1	....
Total circulatory diseases	1	1	1	2	3	2	2	3	3	3	6	....	3	4	5	7	10	4	4	6	14	5	7	7	10	9	4	4
Order 3.—*Respiratory*.																												
Asthma	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Tracheatis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Laryngitis	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....
Bronchitis	....	....	....	1	....	....	....	....	1	1	....	....	....	....	1	....	....	2	....	....	....	....	1	1	1	1	2	1
Pleurisy	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....
Hydrothorax	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Empyemia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Pneumonia	5	3	7	2	1	3	....	2	5	4	3	7	7	2	3	4	12	5	7	2	4	11	2	....	7	10	2	2
Congestion of the lungs	2	1	2	....	1	1	2	....	....	....	....	1	2	1	1	1	2	2	2	....	2	....	2	....	1	2	....	1
Hemorrhage of the lungs	....	....	....	....	....	....	....	....	1	....	....	1	1	....	3	....	2	....	....	....	....	....	1	....	....	....	....	1
Œdema of the lungs	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Emphysema of the lungs	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Gangrene of the lungs	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Abscess of the lungs	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Bronchial catarrh	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pneumo-thorax	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total respiratory diseases	8	5	9	3	2	5	2	2	8	6	4	10	12	4	9	5	17	10	11	3	8	11	7	1	10	13	4	5

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 2.—*Circulatory*—Continued.																								
Aneurism, femoral																								
popliteal																				1				
subclavian																							1	
Dilatation of heart																		1			1			
Hypertrophy of heart		1															1	1	2	1	1			
Valvular disease of heart	2	3	1	1		1											10	5	5	4	3		7	1
Fatty degeneration of heart	1	1						2									4	1			2			
Angina pectoris				1								1					1	2	1			1	1	
Embolism	1																	1	1					
Total circulatory diseases	6	7	1	2		1		2				1					26	15	14	9	13	3	10	3
Order 3.—*Respiratory*.																								
Asthma																			1					
Tracheatis																								
Laryngitis																	1			1	1			
Bronchitis	1	3			2	1	1	1	1								2	2	3		2	1	1	
Pleurisy	1			1																1				1
Hydrothorax																						1		
Empyemia																			1					
Pneumonia	4	5		1	3	1	1										23	15	13	7	16	6	4	6
Congestion of the lungs	1	3	1	3		1											4	5	5	3	3	1	1	1
Hemorrhage of the lungs																	2		4		2			1
Œdema of the lungs						1											1							
Emphysema of the lungs				1													1				1			
Gangrene of the lungs																	1				1		1	
Abscess of the lungs																			1					
Bronchial catarrh																								
Pneumo-thorax	1																							
Total respiratory diseases	8	11	1	6	5	4	2	1	1								35	22	28	12	26	9	7	9

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 2.—*Circulatory*—Continued.																								
Aneurism, femoral	...	....	1	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
popliteal	...	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....	....
subclavian	...	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Dilatation of heart	....	1	....	....	....	....	....	....	1	.....	.....	.....	.....	2	.....	.....	....	....	....	....	....	....	....	....
Hypertrophy of heart	....	1	1	2	1	....	....	....	1	.....	1	.....	.....	1	2	3	3	1	....	....	....	....	....	....
Valvular disease of heart	1	5	....	2	....	....	....	....	4	4	3	5	7	4	10	6	4	2	....	....	....	....	....	....
Fatty degeneration of heart	....	3	....	3	....	....	....	....	.....	1	.....	1	1	2	.....	1	5	1	....	....	....	....	....	1
Angina pectoris	1	....	....	3	....	....	....	....	.....	1	.....	.....	1	1	2	3	1	1	....	....	....	....	....	....
Embolism	....	1	....	1	1	....	....	....	.....	1	.....	.....	1	2	1	1	....	....	....	....	....	....	....	....
Total circulatory diseases	5	15	3	17	2	....	....	....	11	9	5	8	20	19	24	25	19	8	1	....	....	....	....	1
Order 3.—*Respiratory.*																								
Asthma	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Tracheatis	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Laryngitis	....	....	....	....	....	....	....	....	1	1	.....	.....	2	1	.....	1	....	....	....	....	....	....	....	....
Bronchitis	2	5	1	3	....	....	....	....	8	13	35	36	3	4	3	2	2	1	....	....	....	....	....	....
Pleurisy	1	1	....	....	....	....	1	....	.....	.....	.....	1	1	1	1	1	....	....	....	....	....	....	....	....
Hydrothorax	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....	....	....	....	....	....	....	....	....
Empyemia	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Pneumonia	3	17	1	3	....	....	....	....	31	32	67	77	24	23	24	18	18	14	....	....	....	....	....	....
Congestion of the lungs	1	3	....	1	....	....	....	1	8	12	15	6	6	5	7	7	3	3	....	....	....	....	1	....
Hemorrhage of the lungs	....	....	....	1	....	....	....	....	1	.....	1	2	2	.....	3	1	1	....	....	....	....	....	....	....
Œdema of the lungs	....	1	....	....	....	....	....	....	.....	.....	.....	.....	.....	2	.....	.....	1	....	....	....	....	....	....	....
Emphysema of the lungs	....	1	....	1	....	....	....	....	.....	.....	.....	.....	1	.....	.....	1	1	1	....	....	....	....	....	....
Gangrene of the lungs	....	....	....	....	....	....	....	....	1	1	.....	.....	1	.....	1	.....	....	....	....	....	....	....	....	....
Abscess of the lungs	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Bronchial catarrh	....	....	....	....	....	....	....	....	.....	.....	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Pneumo-thorax	1	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	....	....	....	....	....	....	....	....
Total respiratory diseases	8	28	2	9	....	....	1	1	50	60	119	122	41	37	42	31	26	19	....	....	....	....	1	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 y'rs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS III.—LOCAL DISEASES.																		
Order 4.—*Digestive.*																		
Gastritis	25	.594	.124	.166	9	6	3	7	15	10	12	13	1	3	1	2	7	.357
Stomatitis	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Pharyngitis	2	.047	.017	.....	2	.....	.....	.....	2	.....	2	.....	2	.....	.....	.....	2	.102
Enteritis	30	.713	.158	.183	7	12	7	4	19	11	14	16	2	7	4	2	15	.766
Gastro-enteritis	15	.357	.100	.050	5	7	1	2	12	3	6	9	4	3	1	.....	8	.409
Gastro-intestinal catarrh	6	.143	.050	.....	3	3	.....	.....	6	.....	3	3	3	1	.....	.....	4	.205
Peritonitis	22	.523	.124	.116	7	8	3	4	15	7	10	12	2	.....	.....	.....	2	.102
Colonitis	2	.047	.008	.017	1	.....	1	.....	1	1	2	.....	.....	.....	1	.....	1	.051
Ascites	7	.166	.050	.017	4	2	.....	1	6	1	4	3	.....	1	.....	.....	1	.051
Ulceration of intestines	4	.095	.025	.017	2	1	.....	1	3	1	2	2	.....	1	.....	1	2	.102
Congestion of intestines	2	.047	.017	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
Obstruction of intestines	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Hemorrhage of intestines	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
Perforation of intestines	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Colic	3	.071	.017	.017	1	1	1	.....	2	1	2	1	.....	1	.....	.....	1	.051
Constipation	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	1	.051
Intussusception	6	.143	.050	.....	3	3	.....	.....	6	.....	3	3	2	3	.....	.....	5	.255
Ulceration of stomach	4	.095	.025	.017	2	1	.....	1	3	1	2	2	.....	.....	.....	.....	.....	.....
Hepatitis	9	.214	.041	.066	3	2	2	2	5	4	5	4	.....	.....	.....	.....	.....	.....
Hypertrophy of the liver	2	.047	.017	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
Abscess of the liver	5	.119	.025	.033	2	1	1	1	3	2	3	2	.....	.....	.....	.....	.....	.....
Disease of the liver (undefined)	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Atrophy of the liver	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Jaundice	4	.095	.025	.017	3	.....	.....	1	3	1	3	1	1	.....	.....	.....	1	.051
Cirrhosis of the liver	10	.238	.083	.....	8	2	.....	.....	10	.....	8	2	.....	.....	.....	.....	.....	.....
Dyspepsia	8	.190	.041	.050	2	3	2	1	5	3	4	4	1	3	2	1	7	.357
Dentition	40	.951	.149	.365	9	9	11	11	18	22	20	20	9	9	11	11	40	2.043
Hæmatemesis	4	.095	.033	.....	3	1	.....	.....	4	.....	3	1	.....	.....	.....	.....	.....	.....
Cystic degeneration of liver	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Melæna	2	.047	.....	.033	.....	.....	.....	2	.....	2	.....	2	.....	.....	.....	.....	.....	.....
Stricture of œsophagus	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
Gall stones	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Stricture of rectum	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Total digestive diseases	223	5.301	1.228	1.245	84	64	35	40	148	75	119	104	28	32	21	18	99	5.056

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				Augnst.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 4.—*Digestive.*																												
Gastritis	2	1	....	1	....	....	....	....	....	1	....	1	2	2	....	2	1	....	....	....	....	....	....	....	....	....	....	1
Stomatitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pharyngitis	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Enteritis	2	....	1	....	2	1	....	....	1	1	1	....	5	2	2	....	1	1	....	1	....	....	....	....	....	2	....	....
Gastro-enteritis	1	4	1	1	....	....	....	....	....	1	....	1	1	5	1	2	....	....	....	....	1	....	....	....	....	....	....	....
Gastro-intestinal catarrh	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis	....	1	....	....	1	....	....	....	1	1	....	....	2	2	....	....	....	....	....	1	1	....	....	1	....	1	....	....
Colonitis	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ascites	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	1	....	....	....	....	....	....
Ulceration of intestines	....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	1	....	..	....	....	1	....	....	....	....	....	....	....
Congestion of intestines	....	....	....	....	1	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Obstruction of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Hemorrhage of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Perforation of intestines	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Colic	....	....	1	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Constipation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Intussusception	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ulceration of stomach	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Hepatitis	1	....	....	....	....	1	....	1	....	....	1	....	1	1	1	1	....	1	....	....	....	....	....	....	....	....	....	....
Hypertrophy of the liver	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abscess of the liver	....	1	....	....	....	....	1	....	....	....	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....	....
Disease of the liver (undefined)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Atrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Jaundice	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Cirrhosis of the liver	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	2	....	....	....	....	....	....	....
Dyspepsia	....	1	....	....	....	....	....	....	....	2	....	....	....	3	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Dentition	3	2	4	4	....	3	3	1	1	....	....	....	4	5	7	5	....	....	....	....	....	....	1	....	....	....	....	1
Hæmatemesis	....	....	....	....	....	....	....	....	2	....	....	....	2	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Cystic degeneration of liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Melæna	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1
Stricture of œsophagus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gall stones	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Stricture of rectum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total digestive diseases	10	11	7	7	8	6	5	2	7	6	2	3	25	23	14	12	7	3	....	3	9	1	1	1	....	3	....	3

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 4.—*Digestive.*																												
Gastritis	1	....	....	1	....	....	1	....	2	....	....	2	1	1	1	1	3	1	2	3	....	....	....	1	2	1	1	....
Stomatitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pharyngitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Enteritis	1	3	....	1	....	1	2	....	....	1	1	1	....	....	....	....	....	2	3	1	....	....	....	....	1	....	....	....
Gastro-enteritis	1	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
Gastro-intestinal catarrh	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis	1	1	....	2	1	1	1	....	....	3	....	1	....	....	....	....	1	4	1	1	....	....	....	....	....	1	....	....
Colonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Ascites	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	....	1	....	....	....	....
Ulceration of intestines	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Congestion of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Obstruction of intestines	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemorrhage of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Perforation of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Colic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Constipation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Intussusception	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Ulceration of stomach	1	....	....	....	....	....	....	....	2	....	....	....	1	....	....	....	3	....	....	....	....	....	....	....	3	....	....	....
Hepatitis	....	1	....	....	....	....	....	1	1	....	....	1	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....
Hypertrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....
Abscess of the liver	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Disease of the liver (undefined)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Atrophy of the liver	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jaundice	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cirrhosis of the liver	3	....	....	....	1	....	....	....	2	....	....	....	1	....	....	....	4	....	....	....	1	1	....	....	1	....	....	....
Dyspepsia	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	2	1	....	....	....	....
Dentition	....	....	1	1	....	1	....	....	1	....	....	....	....	1	....	1	1	2	....	1	....	....	....	3	2	2	1	1
Hæmatemesis	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Cystic degeneration of liver	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melæna	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Stricture of œsophagus	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Gall stones	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....
Stricture of rectum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total digestive diseases	16	7	1	7	3	3	4	1	6	8	1	6	5	3	1	3	14	14	6	10	4	2	3	7	9	10	4	2

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 4.—*Digestive.*																												
Gastritis	1	2	....	....	3	3	1	1	....	2	1	2	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
Stomatitis	....	....	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pharyngitis	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....
Enteritis	1	1	....	....	1	5	2	2	2	6	2	1	....	1	1	....	....	....	1	....	....	....	....	1	....	....	....	....
Gastro enteritis	2	1	....	....	2	1	....	....	4	2	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....
Gastro-intestinal catarrh	2	2	....	....	2	3	....	....	3	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis	3	1	1	1	3	1	2	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Colonitis	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
Ascites	....	1	....	....	2	1	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ulceration of intestines	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Congestion of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Obstruction of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemorrhage of intestines	1	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Perforation of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Colic	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Constipation	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Intussusception	....	....	....	....	3	....	....	....	2	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ulceration of stomach	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hepatitis	1	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hypertrophy of the liver	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abscess of the liver	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Disease of the liver (undefined)	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Atrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Jaundice	1	....	....	1	2	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cirrhosis of the liver	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Dyspepsia	....	....	....	....	....	....	2	1	....	2	1	1	....	1	1	....	....	....	....	....	....	....	....	....	....	1	....	....
Dentition	2	....	2	....	4	2	3	4	9	4	5	4	....	5	3	7	....	....	3	....	....	....	....	....	....	....	....	....
Hæmatemesis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cystic degeneration of liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Melæna	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Stricture of œsophagus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gall stones	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Stricture of rectum	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total digestive diseases	16	8	7	2	29	20	14	11	24	20	10	10	....	10	5	7	3	1	5	....	....	1	1	1	1	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to **10** years.				**10** to **20** years.				**20** to **30** years.				**30** to **40** years.				**40** to **50** years.				**50** to **60** years.				**60** to **70** years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 4.—*Digestive.*																												
Gastritis	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	2	....	....	1	....	3	2	....	5	....	....	....
Stomatitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pharyngitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Enteritis	....	....	....	1	1	....	....	....	....	....	....	....	....	2	2	....	....	1	....	1	1	1	....	....	2	1	....	....
Gastro-enteritis	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Gastro-intestinal catarrh	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis	....	2	....	1	....	1	....	1	1	1	....	....	....	....	....	2	3	2	2	....	....	....	1	....	....	2	....	....
Colonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Ascites	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	2	1	....	....	1	....	....	....	....	....	....	....
Ulceration of intestines	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Congestion of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Obstruction of intestines	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemorrhage of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Perforation of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Colic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....
Constipation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Intussusception	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ulceration of stomach	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	1
Hepatitis	....	....	....	....	....	....	....	1	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	....
Hypertrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....
Abscess of the liver	....	....	....	....	....	....	....	....	....	1	....	1	....	....	....	....	1	....	....	....	....	....	1	....	1	....	....	....
Disease of the liver (undefined)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Atrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Jaundice	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....
Cirrhosis of the liver	....	....	....	....	....	....	....	....	....	....	....	....	3	1	....	....	2	....	....	....	....	....	....	....	3	1	....	....
Dyspepsia	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Dentition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Hæmatemesis	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....
Cystic degeneration of liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Melæna	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
Stricture of œsophagus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Gall stones	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Stricture of rectum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total digestive diseases	1	3	....	3	2	2	....	2	3	2	2	3	4	4	4	3	12	4	2	3	6	6	4	4	19	6	1	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 4.—*Digestive.*																								
Gastritis	....	....	....	1	1	....	....	1	..	....	....	....	....	....	....	....	7	2	2	3	1	.....	.....	.....
Stomatitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Pharyngitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Enteritis	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	2	4	2	1	.....	1	1	.....
Gastro-enteritis	1	2	....	....	....	....	....	....	....	1	....	....	....	....	....	....	.....	.....	.....	1	.....	.....	.....	.....
Gastro-intestinal catarrh	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Peritonitis	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	1	3	2	1	2	.....	.....
Colonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Ascites	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	1	.....	1	.....	.....	.....	.....
Ulceration of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
Congestion of intestines	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	.....	.....	.....	.....	.....	.....
Obstruction of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Hemorrhage of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Perforation of intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....
Colic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	1	.....	.....	.....	.....	.....
Constipation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Intussusception	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Ulceration of stomach	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	.....	1	1	.....	.....	.....
Hepatitis	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	3	1	1	.....	.....	.....	1	.....
Hypertrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	.....	.....	.....	.....	.....	.....
Abscess of the liver	....	...	...	....	....	....	....	....	....	....	....	...	....	....	....	....	2	1	1	.....	.....	.....	.....	1
Disease of the liver (undefined)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	1	.....	.....	.....	.....	.....
Atrophy of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
Jaundice	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	.....	.....	.....	.....	.....	.....
Cirrhosis of the liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	2	.....	.....	1	.....	.....	.....
Dyspepsia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....
Dentition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Hæmatemesis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	.....	.....	1	.....	.....	.....
Cystic degeneration of liver	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....
Melæna	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Stricture of œsophagus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Gall stones	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
Stricture of rectum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....
Total digestive diseases	8	4	1	2	1	....	1	....	1	....	....	....	....	....	....	....	37	14	11	9	6	4	3	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 4.—*Digestive.*																								
Gastritis	....	1	....	2	....	....	....	....	2	3	1	2	3	2	2	5	4	1	....	....	....	....	....	....
Stomatitis	....	....	....	....	....	....	....	....	.....	.....	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Pharyngitis	....	....	....	....	....	....	....	....	2	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Enteritis	1	....	....	....	1	....	....	....	3	6	3	3	1	4	4	1	3	2	....	....	....	....	....	....
Gastro-enteritis	1	4	....	....	....	....	....	....	5	5	1	1	.....	2	.....	1	....	....	....	....	....	....	....	....
Gastro-intestinal catarrh	....	1	....	....	....	....	....	....	3	2	.....	.....	.....	1	.....	.....	....	....	....	....	....	....	....	....
Peritonitis	1	2	....	....	....	....	....	....	3	3	.....	1	.....	4	3	3	4	1	....	....	....	....	....	....
Colonitis	1	....	....	....	....	....	....	....	1	.....	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Ascites	1	....	....	....	....	....	....	....	1	1	.....	.....	2	.....	.....	1	1	1	....	....	....	....	....	....
Ulceration of intestines	1	....	....	....	....	....	....	....	1	1	.....	1	.....	.....	.....	.....	1	....	....	....	....	....	....	....
Congestion of intestines	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	2	....	....	....	....	....	....	....
Obstruction of intestines	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....
Hemorrhage of intestines	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	....	....	....	....	....	....	....	....
Perforation of intestines	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Colic	....	....	....	....	....	....	....	....	.....	1	.....	.....	1	.....	1	.....	....	....	....	....	....	....	....	....
Constipation	....	....	....	....	....	....	....	....	.....	.....	.....	1	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Intussusception	....	....	....	....	....	....	....	....	3	3	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Ulceration of stomach	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	1	1	1	....	....	....	....	....	....
Hepatitis	....	1	....	1	....	....	....	....	1	2	.....	.....	2	.....	2	2	....	....	....	....	....	....	....	....
Hypertrophy of the liver	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	1	....	....	....	....	....	....	....
Abscess of the liver	....	....	....	....	....	....	....	....	.....	1	.....	.....	1	.....	1	1	1	....	....	....	....	....	....	....
Disease of the liver (undefined)	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Atrophy of the liver	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	....	....	....	....	....	....	....	....
Jaundice	....	....	....	1	....	....	....	....	1	.....	.....	.....	1	.....	.....	1	1	....	....	....	....	....	....	....
Cirrhosis of the liver	3	....	....	....	....	....	....	....	1	.....	.....	.....	3	2	.....	.....	4	....	....	....	....	....	....	....
Dyspepsia	....	....	....	....	....	....	....	....	1	3	2	1	1	.....	.....	.....	....	....	....	....	....	....	....	....
Dentition	....	....	....	....	....	....	....	....	8	8	11	11	1	1	.....	.....	....	....	....	....	....	....	....	....
Hæmatemesis	....	....	....	....	....	....	....	....	.....	1	.....	.....	1	.....	.....	.....	2	....	....	....	....	....	....	....
Cystic degeneration of liver	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Melæna	....	....	....	2	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	2	....	....	....	....	....	....	....	....
Stricture of œsophagus	....	....	....	1	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....	....
Gall stones	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....
Stricture of rectum	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	....	....	1	....	....	....	....	....	....
Total digestive diseases	9	9	....	7	1	....	....	...	36	41	20	21	21	16	15	19	27	7	....	....	....	....	....	....

TABLE 1.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 yrs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS III.—LOCAL DISEASES.																		
Order 5.—*Urinary system.*																		
Nephritis	14	.333	.066	.100	4	4	3	3	8	6	7	7	.....	.....	2	.....	2	.102
Nephria (Bright's disease)	35	.832	.216	.149	17	9	4	5	26	9	21	14	.....	.....	.....	.....	.....	.....
Congestion of the kidneys	2	.047	.008	.017	1	.....	.....	1	1	1	1	1	.....	.....	.....	.....	.....	.....
Addison's disease	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Uræmia	5	.119	.008	.066	.....	1	2	2	1	4	2	3	.....	1	.....	.....	1	.051
Diabetes	4	.095	.033	.....	3	1	.....	.....	4	.....	3	1	.....	.....	.....	.....	.....	.....
Cystitis	10	.238	.058	.050	5	2	3	.....	7	3	8	2	.....	.....	.....	.....	.....	.....
Hæmaturia	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Pyelitis	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Albuminuria	2	.047	.....	.033	.....	.....	2	.....	.....	2	2	.....	.....	.....	.....	.....	.....	.....
Total diseases of the urinary system	75	1.783	.415	.415	32	18	14	11	50	25	46	29	.....	1	2	.....	3	.153
Order 6.—*Generative organs.*																		
Ovarian tumor	3	.071	.008	.033	.....	1	.....	2	1	2	.....	3	.....	.....	.....	.....	.....	.....
Ovarian tumor (operation for)	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Metroperitonitis	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Amenorrhœa	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Metritis	2	.047	.008	.017	.....	1	.....	1	1	1	.....	2	.....	.....	.....	.....	.....	.....
Menorrhagia	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Total diseases of the generative organs	9	.214	.050	.050	.....	6	.....	3	6	3	.....	9	.....	.....	.....	.....	.....	.....
Order 7.—*Osseus and locomotory.*																		
Arthritis, hip joint	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Abscess of mastoid cells	2	.047	.008	.017	.....	1	.....	1	1	1	.....	2	.....	1	.....	1	2	.102
Necrosis of spine	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
Pelvic abscess	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Total osseus and locomotory diseases	5	.119	.033	.017	2	2	.....	1	4	1	2	3	1	1	.....	1	3	.153

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 5.—*Urinary system.*																												
Nephritis	1	1	....	....	....	....	....	....	....	....	1	....	1	1	1	....	....	....	1	....	....	1	....	....	2	....	....	1
Nephria (Bright's disease)	1	1	....	....	1	1	....	....	2	....	....	1	4	2	....	1	1	....	1	2	2	....	....	2	3	1	....	....
Congestion of the kidneys	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....
Addison's disease	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Uræmia	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	1	....	....	....	....	....	....	....	....	....	....	....	....
Diabetes	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	1	....	....	....	1	....	....	....	....	1	....	....
Cystitis	....	2	....	....	1	....	1	....	....	....	....	....	1	2	1	....	1	....	....	....	....	....	....	....	1	....	....	....
Hæmaturia	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pyelitis	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Albuminuria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of the urinary system	2	4	....	1	3	2	1	...	4	1	1	2	9	7	2	3	3	..	2	2	4	1	....	2	6	2	...	1
Order 6.—*Generative organs.*																												
Ovarian tumor	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....
Ovarian tumor (operation for)	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metroperitonitis	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Amenorrhœa	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....
Metritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Menorrhagia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of the generative organs	....	....	..	..	..	1	....	1	....	1	...	1	....	2	....	2	....	....	....	....	....	1	....	....	....	....	....	....
Order 7.—*Osseus and locomotory.*																												
Arthritis, hip joint	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Abscess of mastoid cells	....	....	....	....	....	....	....	..	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Necrosis of spine	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pelvic abscess	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total osseus and locomotory diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total, second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 5.—*Urinary system.*																												
Nephritis	2	1	1	1	....	....	....	1	....	....	....	....	....	1	....	....	....	1	....	1	1	1	....	....	....	....	1	....
Nephria (Bright's disease)	6	1	1	4	....	1	....	....	1	2	2	....	....	....	....	....	1	3	2	....	1	2	....	....	4	....	1	....
Congestion of the kidneys	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Addison's disease	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Uræmia	....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	....	....	....	2	1	....	....	....	....	....	....	....	....
Diabetes	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cystitis	2	....	....	....	....	....	....	....	....	....	2	....	1	....	....	....	1	....	2	....	1	....	....	....	....	....	....	....
Hæmaturia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pyelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Albuminuria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....
Total diseases of the urinary system	13	3	2	5	....	1	....	2	1	2	5	....	1	1	2	....	2	4	7	2	3	3	....	....	4	....	2	....
Order 6.—*Generative organs.*																												
Ovarian tumor	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ovarian tumor (operation for)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metroperitonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Amenorrhœa	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metritis	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	1
Menorrhagia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Total diseases of the generative organs	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1
Order 7.—*Osseus and locomotory.*																												
Arthritis, hip joint	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abscess of mastoid cells	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Necrosis of spine	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Pelvic abscess	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Total osseus and locomotory diseases	1	....	....	1	....	....	....	....	1	....	....	....	....	1	....	....	1	1	....	....	....	....	....	....	....	1	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 5.—*Urinary system.*																												
Nephritis	....	....	....	1	1	1	1	1	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....
Nephria (Bright's disease)	1	1	....	....	6	3	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Congestion of the kidneys	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Addison's disease	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Uræmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Diabetes	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cystitis	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hæmaturia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pyelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Albuminuria	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of the urinary system	1	1	1	1	8	4	3	1	....	....	....	....	....	....	2	....	....	....	....	....	1	....	....	....	....	....	....	....
Order 6.—*Generative organs.*																												
Ovarian tumor	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Ovarian tumor (operation for)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metroperitonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Amenorrhœa	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metritis	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Menorrhagia	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of the generative organs	....	1	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 7.—*Osseus and locomotory.*																												
Arthritis, hip joint	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abscess of mastoid cells	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Necrosis of spine	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Pelvic abscess	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total osseus and locomotory diseases	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS 3.—LOCAL DISEASES.																												
Order 5.—*Urinary system.*																												
Nephritis	....	....	1	2	1	....	....	1	....	....	....	....	....	2	....	....	1	1	....	....	1	1	....	....	....	....	....	....
Nephria (Bright's disease)	....	....	....	....	....	....	1	....	....	2	....	....	4	2	2	....	3	1	1	1	2	4	....	1	6	....	....	3
Congestion of the kidneys	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Addison's disease	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Uræmia	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	....	....	....	....	1	....	....	....	....
Diabetes	....	....	....	....	....	....	....	....	....	1	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Cystitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	1	....	1	....	....	....	3	....	....	....
Hæmaturia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Pyelitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Albuminuria	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Total diseases of the urinary system	....	....	1	2	1	....	1	1	1	3	....	1	5	4	3	..	6	3	4	1	4	5	...	2	10	....	....	3
Order 6.—*Generative organs.*																												
Ovarian tumor	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	...	1	....	....	....	....
Ovarian tumor (operation for)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Metroperitonitis	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Amenorrhœa	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Metritis	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Menorrhagia	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of the generative organs	....	....	....	....	....	1	....	....	....	2	....	1	....	....	....	....	....	2	....	....	....	1	..	1	....	....	....	....
Order 7.—*Osseus and locomotory.*																												
Arthritis, hip joint	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abscess of mastoid cells	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Necrosis of spine	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Pelvic abscess	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total osseus and locomotory diseases	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS 3.—LOCAL DISEASES.																								
Order 5.—*Urinary system.*																								
Nephritis	1																2	2						
Nephria (Bright's disease)	2																10	4	2	2	3	2	1	1
Congestion of the kidneys	1							1									1							
Addison's disease																					1			
Uræmia																				1				1
Diabetes	1																3					1		
Cystitis			2			1											4	1	3					
Hæmaturia																	1							
Pyelitis		1																						
Albuminuria			1																2					
Total diseases of the urinary system	5	1	3			1		1									21	7	7	3	4	3	1	2
Order 6.—*Generative organs.*																								
Ovarian tumor				1														1		1				
Ovarian tumor (operation for)																		1						
Metroperitonitis																						1		
Amenorrhœa																								
Metritis																		1		1				
Menorrhagia																						1		
Total diseases of the generative organs				1														3		2		2		
Order 7.—*Osseus and locomotory.*																								
Arthritis, hip joint																					1			
Abscess of mastoid cells																								
Necrosis of spine																		1						
Pelvic abscess																								
Total osseus and locomotory diseases																		1			1			

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.													
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS 3.—LOCAL DISEASES.																						
Order 5.—*Urinary system.*																						
Nephritis	1	2	....	....	....	....	....	....	2	.....	3	2	2	3	.....	1	....	1	....	....	....	....	....	....
Nephria (Bright's disease)	4	3	....	2	....	....	....	....	3	4	.....	2	8	4	4	3	6	1	....	....	....	....	....	....
Congestion of the kidneys	....	....	....	1	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	1	....	....	....	....	....	....	....
Addison's disease	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	....	....	....	....	....	....	....	....
Uræmia	....	....	....	....	....	....	2	....	.....	1	.....	1	.....	.....	1	1	....	....	....	....	....	....	1	....
Diabetes	....	....	....	....	....	....	....	....	2	.....	.....	.....	.....	1	.....	.....	1	....	....	....	....	....	....	....
Cystitis	1	1	....	....	....	....	....	....	2	.....	1	.....	2	2	2	.....	1	....	....	....	....	....	....	....
Hæmaturia	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	....	....	....	....	....	....	....	....
Pyelitis	....	1	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	....	1	....	....	....	....	....	....
Albuminuria	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	2	.....	....	....	....	....	....	....	....	....
Total diseases of the urinary system	6	7	....	3	....	....	2	....	9	5	4	5	14	10	9	6	9	3	....	....	....	....	1	....
Order 6.—*Generative organs.*																						
Ovarian tumor	....	....	....	1	....	....	....	....	.....	.....	.....	.....	.....	1	.....	2	....	....	....	....	....	....	....	....
Ovarian tumor (operation for)	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	....	1	....	....	....	....	....	....
Metroperitonitis	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....	....	....	....	....	....	....	....	....
Amenorrhœa	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Metritis	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	....	1	....	....	....	....	....	....
Menorrhagia	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....	....	....	....	....	....	....	....	....
Total diseases of the generative organs	....	....	....	1	....	....	....	....	.....	1	.....	.....	.....	3	.....	3	....	2	....	....	....	....	....	....
Order 7.—*Osseus and locomotory.*																						
Arthritis, hip joint	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....	....	....	....	....	....	....	....	....
Abscess of mastoid cells	....	....	....	....	....	....	....	....	.....	1	.....	1	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Necrosis of spine	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Pelvic abscess	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....	....	....	....	....	....	....	....	....
Total osseus and locomotory diseases	....	....	....	....	....	....	....	....	1	1	.....	1	1	1	.....	.....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants,		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 y'rs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS III.—LOCAL DISEASES.																		
Order 8.—*Integumentary diseases.*																		
Cellulitis	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	1	.051
Fibro-plastic tumor of the groin	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Lupus	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Total integumentary diseases	3	.071	.017	.017	1	1	.....	1	2	1	1	2	.....	.....	.....	1	1	.051
Total local diseases	1,584	37.652	6.698	12.898	444	363	386	391	807	777	830	754	132	147	247	229	755	38.560
CLASS IV.—DEVELOPMENTAL DISEASES.																		
Order 1.—*Children.*																		
Premature birth	85	2.020	.382	.647	28	18	18	21	46	39	46	39	28	18	18	21	85	4.341
Preternatural birth	6	.143	.041	.017	3	2	1	.....	5	1	4	2	3	2	1	.....	6	.306
Cyanosis	15	.557	.108	.033	8	5	2	.....	13	2	10	5	8	5	1	.....	14	.715
Atresia of the colon	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
intestines	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	1	.051
Umbilical hemorrhage	6	.143	.017	.066	2	.....	2	2	2	4	4	2	2	.....	2	2	6	.306
hernia	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	.051
Atelectasis pulmonum	5	.119	.033	.017	4	.....	.....	1	4	1	4	1	4	.....	.....	1	5	.255
Congenital debility	87	2.068	.249	.946	18	12	32	25	30	57	50	37	18	12	32	25	87	4.443
Malformation	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Hemophilia	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	.051
Acephalus	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	.051
Total diseases of children	210	4.992	.863	1.760	64	40	56	50	104	106	120	90	64	40	55	50	209	10.674
Order 2.—*Women.*																		
Parturition	3	.071	.017	.017	.....	2	.....	1	2	1	.....	3	.....	.....	.....	.....	.....	.....
Puerperal convulsions	8	.190	.033	.066	.....	4	.....	4	4	4	.....	8	.....	.....	.....	.....	.....	.....
mania	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
fever and peritonitis	9	.214	.041	.066	.....	5	.....	4	5	4	.....	9	.....	.....	.....	.....	.....	.....
septicæmia	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 8.—*Integumentary diseases.*																												
Cellulitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fibro-plastic tumor of the groin	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Lupus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total integumentary diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total local diseases	49	36	32	31	30	22	30	16	34	25	25	33	113	83	87	80	31	16	26	24	32	28	17	35	38	26	35	36
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 1.—*Children.*																												
Premature birth	3	2	....	....	2	2	4	1	2	2	....	1	7	6	4	2	2	....	1	4	4	1	2	3	3	4	3	1
Preternatural birth	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Cyanosis	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	2	....	....	....	....
Atresia of the colon	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
Umbilical hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....
hernia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Atelectasis pulmonum	....	....	....	1	1	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	1	....	....	1	....	....	....	....
Congenital debility	2	3	3	1	2	2	6	2	2	1	1	....	6	6	10	3	2	....	1	1	1	....	2	1	1	....	3	3
Malformation	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemophilia	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Acephalus	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of children	7	5	4	2	5	5	11	3	4	4	1	1	16	14	16	6	4	....	2	5	8	1	4	5	7	6	7	4
Order 2.—*Women.*																												
Parturition	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Puerperal convulsions	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	1	....	....
mania	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
fever and peritonitis	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1	....	....
septicæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 8.—*Integumentary diseases.*																												
Cellulitis	....	....	....	....	....	....	...	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Fibro-plastic tumor of the groin	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Lupus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total integumentary diseases	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
Total local diseases	101	70	78	95	39	34	34	34	39	44	40	43	40	31	37	46	118	109	111	123	35	23	45	31	38	35	34	30
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 1.—*Children.*																												
Premature birth	9	5	6	8	3	1	....	1	5	2	2	1	1	1	5	2	9	4	7	4	....	1	....	2	1	2	....	....
Preternatural birth	....	1	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	1	1	....	....
Cyanosis	3	....	....	....	....	3	1	....	2	1	....	....	1	....	....	....	3	4	1	....	....	....	....	....	2	....	....	....
Atresia of the colon	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
intestines	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Umbilical hemorrhage	1	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	1	....	....	1	....
hernia	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Atelectasis pulmonum	2	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Congenital debility	4	....	6	5	1	....	1	4	2	....	2	....	1	....	2	3	4	....	5	7	....	3	2	4	1	2	6	2
Malformation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemophilia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Acephalus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of children	19	7	13	14	4	4	2	6	10	3	4	1	3	1	8	5	17	8	14	12	1	4	2	7	5	5	7	2
Order 2.—*Women.*																												
Parturition	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	....	....	....	....	....	....	....
Puerperal convulsions	....	2	....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	1	....	2	....	....	....	1	....	....	....	1
mania	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
fever and peritonitis	....	1	....	1	....	....	....	....	....	3	....	1	....	1	....	....	....	4	....	1	....	....	....	....	....	....	....	1
septicæmia	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
Class III.—LOCAL DISEASES.																												
Order 8.—*Integumentary diseases.*																												
Cellulitis	....	....	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fibro-plastic tumor of the groin	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	..	....
Lupus	....	1	....	....	....	1	....	....	....	....	....	..	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....
Total integumentary diseases	....	1	....	....	....	1	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	..	....	....	....	....
Total local diseases	39	43	31	32	112	101	110	93	93	99	164	132	19	30	48	57	11	12	24	21	6	4	9	10	3	2	2	9
Class IV.—DEVELOPMENTAL DISEASES.																												
Order 1.—*Children.*																												
Premature birth	2	....	1	5	3	3	1	7	28	18	18	21	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Preternatural birth	1	....	....	....	2	1	....	....	3	2	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cyanosis	....	1	....	....	2	1	....	....	8	5	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Atresia of the colon	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
intestines	....	....	....	....	....	....	....	....	....	....	..	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Umbilical hemorrhage	....	....	....	....	1	....	1	1	2	....	2	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
hernia	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Atelectasis pulmonum	....	....	....	....	....	....	....	....	4	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Congenital debility	3	1	3	4	4	6	11	10	18	12	32	25	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Malformation	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemophilia	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Acephalus	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of children	6	2	4	9	12	11	13	18	64	40	55	50	....	....	....	..	....	..	....	....	....	....	....	....	....	....	....	....
Order 2.—*Women.*																												
Parturition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Puerperal convulsions	....	....	....	....	....	....	..	2	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
mania	....	....	....	....	....	....	....	....	....	....	....	..	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....
fever and peritonitis	....	....	....	....	....	....	....	1	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
septicæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																												
Order 8.—*Integumentary diseases.*																												
Cellulitis	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Fibro-plastic tumor of the groin	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...
Lupus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Total integumentary diseases	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	...	...	...	...	...	...	...	...	...	...
Total local diseases	13	9	14	13	9	10	8	10	19	20	14	20	36	20	24	21	57	34	26	20	60	36	21	22	62	43	16	25
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 1.—*Childen.*																												
Premature birth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Preternatural birth	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Cyanosis	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atresia of the colon	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
intestines	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Umbilical hemorrhage	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
hernia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Atelectasis pulmonum	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Congenital debility	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Malformation	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Hemophilia	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Acephalus	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Total diseases of children	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
Order 2.—*Women.*																												
Parturition	...	...	...	...	...	...	...	...	...	...	...	1	...	1	...	...	...	1	...	...	...	...	...	...	...	...	...	...
Puerperal convulsions	...	...	...	...	...	1	...	...	...	1	...	3	...	2	...	1	...	...	...	...	...	...	...	...	...	...	...	...
mania	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...
fever and peritonitis	...	...	...	...	...	2	...	...	...	1	...	2	...	2	...	2	...	...	...	...	...	...	...	...	...	...	...	...
septicæmia	...	...	...	...	...	...	...	...	...	...	...	...	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 8.—*Integumentary diseases.*																								
Cellulitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Fibro-plastic tumor of the groin	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
Lupus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....
Total integumentary diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	.....	.....	.....	.....	.....	.....
Total local diseases	40	33	10	19	13	9	5	10	3	2	1	1	....	....	....	1	163	89	76	48	76	28	25	22
CLASS IV.—DEVELOPMENTAL DISEASES.																								
Order 1.—*Children.*																								
Premature birth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Preternatural birth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Cyanosis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Atresia of the colon	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
intestines	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Umbilical hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
hernia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Atelectasis pulmonum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Congenital debility	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Malformation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Hemophilia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Acephalus	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Total diseases of children	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Order 2.—*Women.*																								
Parturition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	2	.....	1	.....	.....	.....	.....
Puerperal convulsions	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	3	.....	2	.....	.....	.....	2
mania	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	1	.....	.....	.....	.....
fever and peritonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	3	.....	3	.....	.....	.....	.....
septicæmia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS III.—LOCAL DISEASES.																								
Order 8.—*Integumentary diseases.*																								
Cellulitis	....	....	....	....	....	....	..	....	.....	.....	.....	1	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Fibro-plastic tumor of the groin	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....	1	....	....	....	....	....	....	....
Lupus	....	....	....	....	....	....	..	....	.....	.....	.....	.....	.....	.....	.....	.....	....	1	....	....	....	....	....	....
Total integumentary diseases	....	....	....	....	....	....	....	....	.....	.....	.....	1	.....	.....	.....	.....	1	1	....	....	....	....	....	....
Total local diseases	46	80	12	66	5	....	4	3	181	185	266	264	143	126	116	126	120	52	1	....	....	....	3	1
CLASS IV.—DEVELOPMENTAL DISEASES.																								
Order 1.—*Children.*																								
Premature birth	....	....	....	....	....	....	....	....	28	17	18	21	.....	1	.....	.....	....	....	....	....	....	....	....	....
Preternatural birth	....	....	....	....	....	....	....	....	3	2	1	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Cyanosis	....	....	....	....	....	....	....	....	8	5	2	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Atresia of the colon	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
intestines	....	....	....	....	....	....	....	....	.....	.....	.....	1	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Umbilical hemorrhage	....	....	....	....	....	....	....	....	2	.....	2	2	.....	.....	.....	.....	....	....	....	....	....	....	....	....
hernia	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Atelectasis pulmonum	....	....	....	....	....	....	....	....	4	.....	.....	1	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Congenital debility	....	....	....	....	....	....	....	....	18	10	32	25	.....	2	.....	.....	....	....	....	....	....	....	....	....
Malformation	....	....	....	....	....	....	....	....	.....	.....	1	....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Hemophilia	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Acephalus	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Total diseases of children	....	....	....	....	....	....	....	....	64	37	56	50	.....	3	.....	....	....	....	....	....	....	....	....	....
Order 2.—*Women.*																								
Parturition	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	1	...	1	....	...	....	....	....	....
Puerperal convulsions	....	....	....	....	....	....	....	....	.....	2	.....	.....	.....	2	.....	4	....	....	....	...	....	....	....	....
mania	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	1	....	....	..	....	....	....	....	....
fever and peritonitis	....	....	....	1	....	....	....	..	.....	2	.....	1	.....	3	.....	3	....	....	....	...	....	....	....	....
septicæmia	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	1	.....	.....	....	....	..	...	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 yrs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS IV.—DEVELOPMENTAL DISEASES.																		
Order 2.—*Women.*																		
Puerperal metro-peritonitis	3	.071	.....	.050	.....	.....	.....	3	.....	3	.....	3	.....	.....	.....	.....	.....	.....
Placenta previa	2	.047	.008	.017	.....	1	.....	1	1	1	.....	2	.....	.....	.....	.....	.....	.....
Abortion	3	.071	.008	.033	.....	1	.....	2	1	2	.....	3	.....	.....	.....	.....	.....	.....
Miscarriage	4	.095	.017	.033	.....	2	.....	2	2	2	.....	4	.....	.....	.....	.....	.....	.....
Puerperal metritis	2	.047	.008	.017	.....	1	.....	1	1	1	.....	2	.....	.....	.....	.....	.....	.....
Post partum hemorrhage	2	.047	.008	.017	.....	1	.....	1	1	1	.....	2	.....	.....	.....	.....	.....	.....
Total diseases of women	38	.903	.149	.332	.....	18	.....	20	18	20	.....	38	.....	.....	.....	.....	.....	.....
Order 3.—*Old age.*																		
Senile debility	145	3.447	.689	1.029	27	56	16	46	83	62	43	102	.....	.....	.....	.....	.....	.....
Senile gangrene	5	.119	.033	.017	3	1	.....	1	4	1	3	2	.....	.....	.....	.....	.....	.....
Total diseases of old age	150	3.566	.722	1.046	30	57	16	47	87	63	46	104	.....	.....	.....	.....	.....	.....
Order 4.—*Nutrition.*																		
Debility or asthenia	15	.357	.066	.116	6	2	1	6	8	7	7	8	.....	.....	.....	.....	.....	.....
Total developmental diseases	413	9.818	1.800	3.254	100	117	73	123	217	196	173	240	64	40	55	50	209	10.674
CLASS V.—VIOLENCE.																		
Order 1.—*Accidents and negligence.*																		
Injury from falls	11	.261	.058	.066	5	2	3	1	7	4	8	3	1	.....	.....	.....	1	.051
Neglect at birth	9	.214	.033	.083	1	3	4	1	4	5	5	4	1	3	4	1	9	.460
Concussion of brain (struck by a well-bucket)	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Tetanus (injury of finger)	2	.047	.008	.017	1	.....	1	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....
Drowning	14	.333	.041	.149	5	.....	8	1	5	9	13	1	.....	.....	.....	.....	.....	.....
Fractured skull (railroad accidents)	2	.047	.017	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
(fall of earth)	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Peritonitis (from injury)	2	.047	.008	.017	1	.....	1	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....
Rupture of intestines (injury)	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Overlaid by mother	11	.261	.017	.149	.....	2	7	2	2	9	7	4	.....	2	7	2	11	.562
Cerebritis (from fall)	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	1	.051
Neglect	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	1	.051
Peritonitis (injured by fall of earth)	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 2.—*Women.*																												
Puerperal metro-peritonitis	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....
Placenta previa	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
Abortion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Miscarriage	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....
Puerperal metritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Post partum hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of women	....	2	....	3	....	....	....	1	....	....	....	....	....	2	....	4	....	1	....	2	....	3	....	1	....	2	....	....
Order 3.—*Old age.*																												
Senile debility	....	4	2	3	5	6	....	2	2	8	1	2	7	18	3	7	1	5	5	3	1	6	2	2	1	1	....	7
Senile gangrene	1	....	....	....	....	....	....	....	1	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of old age	1	4	2	3	5	6	....	2	3	8	1	2	9	18	3	7	1	5	5	3	1	6	2	2	1	1	....	7
Order 4.—*Nutrition.*																												
Debility or asthenia	....	1	1	1	....	....	....	2	1	....	....	1	1	1	1	4	....	1	....	....	1	....	....	1	....	....	....	....
Total developmental diseases	8	12	7	9	10	11	11	8	8	12	2	4	26	35	20	21	5	7	7	10	10	10	6	9	8	9	7	11
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Injury from falls	2	....	1	....	....	....	....	....	....	....	1	....	2	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....
Neglect at birth	....	1	....	....	....	....	....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Concussion of brain (struck by a well-bucket)	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus (injury of finger)	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....
Drowning	....	....	3	....	1	....	....	....	....	....	1	....	1	....	4	....	....	....	....	....	....	....	....	....	....	....	....	1
Fractured skull (railroad accidents)	....	....	....	....	2	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
(fall of earth)	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis (from injury)	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Rupture of intestines (injury)	....	....	....	....	1	....	2	....	....	....	1	....	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....
Overlaid by mother	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
Cerebritis (from fall)	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
Neglect	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis (injured by fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 2.—*Women.*																												
Puerperal metro-peritonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....
Placenta previa	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Abortion	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	1	....	....	....	....
Miscarriage	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	1	....	1	....	....	....	....	....	....	....	....
Puerperal metritis	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	1	....	....
Post partum hemorrhage	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	....	....	....
Total diseases of women	....	6	....	3	....	2	....	2	....	3	....	3	....	3	....	3	....	8	....	8	....	1	....	2	....	1	....	3
Order 3.—*Old age.*																												
Senile debility	3	12	7	12	4	1	....	3	2	9	3	6	2	5	1	5	8	15	4	14	5	4	....	5	1	2	....	3
Senile gangrene	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1
Total diseases of old age	3	12	7	12	5	1	....	3	2	9	3	6	2	5	1	5	9	15	4	14	5	4	....	5	1	2	...	4
Order 4.—*Nutrition.*																												
Debility or asthenia	1	1	....	1	2	....	....	1	2	....	....	....	....	....	....	....	4	....	....	1	....	....	....	....	....	....	....	....
Total developmental diseases	23	26	20	30	11	7	2	12	14	15	7	10	5	9	9	13	30	31	18	35	6	9	2	14	6	8	7	9
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Injury from falls	1	....	....	....	1	1	....	....	....	....	....	....	1	1	1	1	2	2	1	1	....	....	....	....	....	....	....	....
Neglect at birth	....	1	....	....	....	....	....	....	....	....	1	....	....	....	2	....	....	....	3	....	....	1	....	....	....	....	....	1
Concussion of brain (struck by a well-bucket)	....	....	...	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus (injury of finger)	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Drowning	....	....	....	1	1	....	2	....	....	....	....	....	....	....	....	....	1	....	2	....	1	....	....	....	1	...	....	....
Fractured skull (railroad accidents)	....	...	....	....	....	....	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
(fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis (from injury)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Rupture of intestines (injury)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overlaid by mother	....	....	...	1	....	....	1	....	....	1	....	....	....	....	....	....	....	1	1	....	....	....	2	1	....	1	1	....
Cerebritis (from fall)	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Neglect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis (injured by fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 2.—*Women.*																												
Puerperal metro-peritonitis	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Placenta previa	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abortion	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Miscarriage	....	...	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Puerperal metritis	....	...	....	....	....	1	....	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Post partum hemorrhage	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of women	....	....	....	....	....	2	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 3.—*Old age.*																												
Senile debility	3	5	2	5	9	11	2	13	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Senile gangrene	....	1	...	....	..	1	....	1	....	....	....	..	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total diseases of old age	3	6	2	5	9	12	2	14	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 4.—*Nutrition.*																												
Debility or asthenia	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total developmental diseases	9	8	6	14	21	25	15	37	64	40	55	50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Injury from falls	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Neglect at birth	....	....	1	....	...	1	1	1	1	3	4	1	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Concussion of brain (struck by a well-bucket)	....	....	....	....	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus (injury of finger)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Drowning	1	....	2	....	3	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fractured skull (railroad accidents)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
(fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis (from injury)	...	....	....	....	....	....	1	...	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Rupture of intestines (injury)	....	....	....	....	....	1	3	1	....	2	7	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Overlaid by mother	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cerebritis (from fall)	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Neglect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Peritonitis (injured by fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS IV.—DEVELOPMENTAL DISEASES.																												
Order 2.—*Women.*																												
Puerperal metro-peritonitis								1				2																
Placenta previa										1						1												
Abortion												1		1						1								
Miscarriage														2		2												
Puerperal metritis								1		1																		
Post partum hemorrhage														1		1												
Total diseases of women						3		2		4		9		10		8		1		1								
Order 3.—*Old age.*																												
Senile debility																							1		2	6	1	4
Senile gangrene																										1		
Total diseases of old age																							1		2	7	1	4
Order 4.—*Nutrition.*																												
Debility or asthenia																2		1		1	2				4		1	1
Total developmental diseases			1			3		2		4		9		10		10		2		2	2		1		6	7	2	5
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Injury from falls		1							1				1		1		2						1	1		1		
Neglect at birth																												
Concussion of brain (struck by a well-bucket)							1																					
Tetanus (injury of finger)					1		1																					
Drowning	1				3		4				3	1	1		1													
Fractured skull (railroad accidents)	1												1															
(fall of earth)																									1			
Peritonitis (from injury)																			1									
Rupture of intestines (injury)																	1											
Overlaid by mother																												
Cerebritis (from fall)																												
Neglect																												
Peritonitis (injured by fall of earth)									1																			

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS IV.—DEVELOPMENTAL DISEASES.																								
Order 2.—*Women.*																								
Puerperal metro-peritonitis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	....	1	.....	.....	.....	1
Placenta previa	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	1	.....	.....	.....	.....
Abortion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	2	.....	.....	.....	.....
Miscarriage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	2	.....	2	.....	.....	.....	.....
Puerperal metritis	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	.....
Post partum hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	.....	.....	.....	.....	1
Total diseases of women	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	15	.....	13	.....	.....	.....	4
Order 3.—*Old age.*																								
Senile debility	10	24	6	10	12	22	6	17	3	3	2	5	....	1	....	10	8	3	10	5	.....	10	.....	3
Senile gangrene	2	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	.....	1	.....	1	1	.....	.....	.....
Total diseases of old age	12	24	6	10	12	22	6	18	4	3	2	5	....	1	....	10	8	4	10	6	1	10	.....	3
Order 4.—*Nutrition.*																								
Debility or asthenia	....	1	....	2	....	....	....	....	....	....	....	....	....	....	....	....	5	.....	.....	3	.....	1	.....	1
Total developmental diseases	12	25	6	12	12	22	6	18	4	3	2	5	....	1	....	10	13	19	10	22	1	11	.....	8
CLASS V.—VIOLENCE.																								
Order 1.—*Accidents and negligence.*																								
Injury from falls	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	2	.....	2	1	2	1	.....	.....
Neglect at birth	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Concussion of brain (struck by a well-bucket)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Tetanus (injury of finger)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Drowning	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	2	.....	.....	.....	1	1
Fractured skull (railroad accidents)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
(fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Peritonitis (from injury)	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	1	.....
Rupture of intestines (injury)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	.....	.....	.....	.....	.....	.....
Overlaid by mother	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Cerebritis (from fall)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Neglect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Peritonitis (injured by fall of earth)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	1	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS IV.—DEVELOPMENTAL DISEASES.																								
Order 2.—*Women.*																								
Puerperal metro-peritonitis											1				2									
Placenta previa										1					1									
Abortion										1		2												
Miscarriage														1		2		1						
Puerperal metritis										1		1												
Post partum hemorrhage										1						1								
Total diseases of women				1						8		5		8		15		2						
Order 3.—*Old age.*																								
Senile debility	18	43	6	38	1					7		2	13	27	16	44	14	22						
Senile gangrene	2												2	1		1	1							
Total diseases of old age	20	43	6	38	1					7		2	15	28	16	45	15	22						
Order 4.—*Nutrition.*																								
Debility or asthenia		1	1	1	1			1	1				2		1	6	3	2						
Total developmental diseases	20	44	7	40	2			1	65	52	56	57	17	39	17	66	18	26						
CLASS V.—VIOLENCE.																								
Order 1.—*Accidents and negligence.*																								
Injury from falls			1						2				2	2	3	1	1							
Neglect at birth									1	3	4	1												
Concussion of brain (struck by a well-bucket)															1									
Tetanus (injury of finger)									1						1									
Drowning	1						1		1		3		4		5	1								
Fractured skull (railroad accidents)									1								1							
(fall of earth)	1																1							
Peritonitis (from injury)													1		1									
Rupture of intestines (injury)																	1							
Overlaid by mother										2	7	2												
Cerebritis (from fall)												1												
Neglect												1												
Peritonitis (injured by fall of earth)													1											

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE.		RECAPITULATION.														
			Deaths per 1,000 inhabitants.		Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 years of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS V.—VIOLENCE.																		
Order 1.—*Accidents and negligence.*																		
Gunshot wound	3	.071	.017	.017	2	.....	1	.....	2	1	3	.....	.....	.....	.....	.....	.....	.....
Fracture of rib	2	.047	.008	.017	1	.....	1	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....
Overdose of opium	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Fracture of spine (from fall)	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Mercurial poisoning	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Burns	8	.190	.017	.100	2	.....	2	4	2	6	4	4	.....	.....	.....	2	2	.102
Rupture of vena-cava (from coughing)	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Puerperal hemorrhage (from injury)	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
Fracture of leg	5	.119	.025	.033	2	1	2	.....	3	2	4	1	.....	.....	.....	.....	.....	.....
Injury to leg (run over by wagon)	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Run over by street cars	2	.047	.017	.....	1	1	.....	.....	2	.....	1	1	.....	1	.....	.....	1	.051
Traumatic tetanus (injury to neck)	1	.024	.....	.017	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	.....	.....	.....
Hemorrhage of cord	2	.047	.....	.033	.....	.....	1	1	.....	2	1	1	.....	.....	1	1	2	.102
Scalds	5	.119	.033	.017	2	2	.....	1	4	1	2	3	2	2	.....	1	5	.255
Hemorrhage, from surgical operation	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Fracture of skull	4	.095	.033	.....	4	.....	.....	.....	4	.....	4	.....	.....	.....	.....	.....	.....	.....
Run over by railroad cars	3	.071	.017	.017	2	.....	1	.....	2	1	3	.....	.....	.....	.....	.....	.....	.....
Piece of coal in throat	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
Inhalation of carbonic acid gas	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Poisoned with arsenic	2	.047	.017	.....	1	1	.....	.....	2	.....	1	1	.....	.....	.....	.....	.....	.....
Surgical operation	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Poisoned with laudanum	2	.047	.008	.017	1	.....	.....	1	1	1	1	1	.....	.....	.....	.....	.....	.....
Choked with bread	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Tetanus, injury to foot	2	.047	.008	.017	1	.....	1	.....	1	1	2	.....	.....	.....	.....	.....	.....	.....
Umbilical hemorrhage	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	1	.....	1	.051
Exposure	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Total accidents and negligence	111	2.638	.481	.880	46	12	37	16	58	53	83	28	5	8	14	9	36	1.839

TABLE 1.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Gunshot wound	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....
Fracture of rib	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	1	....	....	....
Overdose of opium	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Fracture of spine (from fall)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Mercurial poisoning	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Burns	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	1	1	....	....	....
Rupture of vena-cava (from coughing)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Puerperal hemorrhage (from injury)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	1	....	....
Fracture of leg	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....
Injury to leg (run over by wagon)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Run over by street cars	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....
Traumatic tetanus (injury to neck)	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Hemorrhage of cord	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Scalds	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hemorrhage, from surgical operation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fracture of skull	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Run over by railroad cars	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Piece of coal in throat	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Inhalation of carbonic acid gas	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poisoned with arsenic	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Surgical operation	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Poisoned with laudanum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Choked with bread	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Tetanus, injury to foot	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Umbilical hemorrhage	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Exposure	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total accidents and negligence	2	1	6	....	6	....	2	2	2	....	5	....	10	1	13	2	2	....	....	....	5	....	1	2	4	2	2	3

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Gunshot wound	1				1												1											
Fracture of rib	1																											
Overdose of opium	1																											
Fracture of spine (from fall)	1																											
Mercurial poisoning	1																											
Burns	2		1								1				2				3						2			
Rupture of vena-cava (from coughing)			1																									
Puerperal hemorrhage (from injury)				1																								
Fracture of leg	1		1		1	1	1										1	1	1									
Injury to leg (run over by wagon)	1																											
Run over by street cars		1																										
Traumatic tetanus (injury to neck)				1																								
Hemorrhage of cord			1																									1
Scalds					1								1	1		1	2	1		1								
Hemorrhage from surgical operation					1												1											
Fracture of skull									3								3				1							
Run over by railroad cars									1								1						1					
Piece of coal in throat													1				1											
Inhalation of carbonic acid gas													1				1											
Poisoned with arsenic													1	1			1	1										
Surgical operation															1				1			1				1		
Poisoned with laudanum																1												1
Choked with bread																												1
Tetanus, injury to foot																										1		
Umbilical hemorrhage																												
Exposure																												
Total accidents and negligence	11	2	3	5	6	2	4	....	4	1	1	1	5	3	4	5	15	6	9	6	3	1	3	1	3	1	6	2

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Gunshot wound																												
Fracture of rib																												
Overdose of opium																												
Fracture of spine (from fall)																												
Mercurial poisoning																												
Burns							2																	1				1
Rupture of vena-cava (from coughing)																												
Puerperal hemorrhage (from injury)																												
Fracture of leg																												
Injury to leg (run over by wagon)																												
Run over by street cars	1				1										1													
Traumatic tetanus (injury to neck)																												
Hemorrhage of cord							1			1	1																	
Scalds		1				1				1		1	1						1			1						
Hemorrhage from surgical operation																												
Fracture of skull					1																							
Run over by railroad cars	1				1		1																					
Piece of coal in throat													1															
Inhalation of carbonic acid gas																												
Poisoned with arsenic																												
Surgical operation										1																		
Poisoned with laudanum					1																							
Choked with bread					1																							
Tetanus, injury to foot	1				1		1																					
Umbilical hemorrhage							1			1																		
Exposure					1																							
Total accidents and negligence	4	1	3		10	3	12	3	1	6	14	7	2	1			1	1			1			1				1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 1.—*Accidents and negligence.*																												
Gunshot wound							1		2																			
Fracture of rib																												
Overdose of opium													1															
Fracture of spine (from fall)																					1							
Mercurial poisoning																					1							
Burns			1	1			1	1									1								1			
Rupture of vena-cava (from coughing)																											1	
Puerperal hemorrhage (from injury)																			1									
Fracture of leg													1		1		1						1					
Injury to leg (run over by wagon)					1																							
Run over by street cars	1																											
Traumatic tetanus (injury to neck)							1																					
Hemorrhage of cord																												
Scalds																												
Hemorrhage, from surgical operation					1																							
Fracture of skull													1				2								1			
Run over by railroad cars																	2		1									
Piece of coal in throat																												
Inhalation of carbonic acid gas																									1			
Poisoned with arsenic																	1	1										
Surgical operation																												
Poisoned with laudanum													1				1											
Choked with bread																					1							
Tetanus, injury to foot	1		1																									
Umbilical hemorrhage																												
Exposure													1															
Total accidents and negligence	4	1	2	1	6		8	2	4		3	1	8		3	1	10	1	2	1	3		2	1	4	1	1	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PRRCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																								
Order 1.—*Accidents and negligence.*																								
Gunshot wound																					2			
Fracture of rib					1		1										1		1					
Overdose of opium																	1							
Fracture of spine (from fall]																	1							
Mercurial poisoning																								
Burns																	1				1			
Rupture of vena-cava (from coughing)																			1					
Puerperal hemorrhage (from injury)																				1				
Fracture of leg									1										1					
Injury to leg (run over by wagon)																								
Run over by street cars																								
Traumatic tetanus (injury to neck)																								
Hemorrhage of cord																								
Scalds																								
Hemorrhage, from surgical operation																								
Fracture of skull																	2				2			
Run over by railroad cars																	2		1					
Piece of coal in throat																								
Inhalation of carbonic acid gas																					1			
Poisoned with arsenic																	1	1						
Surgical operation																								
Poisoned with laudanum																	1			1				
Choked with bread																								
Tetanus, injury to foot																								
Umbilical hemorrhage																								
Exposure																					1			
Total accidents and negligence					2		2			1							15	1	8	3	10	1	2	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																								
Order 1.—*Accidents and negligence.*																								
Gunshot wound													2		1									
Fracture of rib															1		1							
Overdose of opium																	1							
Fracture of spine (from fall)																	1							
Mercurial poisoning	1																							
Burns											2	3	2			1								
Rupture of vena-cava (from coughing)															1									
Puerperal hemorrhage (from injury)																1								
Fracture of leg	1	1	1		1								1	1	2		1							
Injury to leg (run over by wagon)									1															
Run over by street cars									1	1														
Traumatic tetanus (injury to neck)																1								
Hemorrhage of cord											1	1												
Scalds									2	2		1												
Hemorrhage, from surgical operation									1															
Fracture of skull									1				2				1							
Run over by railroad cars													1		1		1							
Piece of coal in throat									1															
Inhalation of carbonic acid gas																	1							
Poisoned with arsenic																	1	1						
Surgical operation											1													
Poisoned with laudanum																1	1							
Choked with bread	1																1							
Tetanus, injury to foot									1		1													
Umbilical hemorrhage											1													
Exposure													1											
Total accidents and negligence	5	1	2		1		1		14	8	20	10	17	3	17	6	15	1						

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Causes of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 yrs of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
CLASS V.—VIOLENCE.																		
Order 2.—*Judicial execution.*																		
Hanging	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Total judicial executions	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
Order 3.—*Homicide.*																		
Gunshot wound	5	.119	.....	.083	.....	.....	4	1	.....	5	4	1	.....	.....	.....	.....	.....	.....
Infanticide	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	1	.....	.....	1	.051
Fracture of skull	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Abortion	1	.024	.008	.....	.....	1	.....	.....	1	.....	.....	1	.....	.....	.....	.....	.....	.....
Criminal neglect	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	1	.....	.....	.....	1	.051
Total homicide	9	.215	.032	.083	2	2	4	1	4	5	6	3	1	1	.....	.....	2	.102
Order 4.—*Suicide.*																		
Jumping from building	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Hanging	7	.166	.041	.033	4	1	2	.....	5	2	6	1	.....	.....	.....	.....	.....	.....
By laudanum	2	.047	.017	.....	.....	2	.....	.....	2	.....	.....	2	.....	.....	.....	.....	.....	.....
By opium	2	.047	.017	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
Gunshot wound	6	.143	.050	.....	6	.....	.....	.....	6	.....	6	.....	.....	.....	.....	.....	.....	.....
Cut throat	2	.047	.017	.....	2	.....	.....	.....	2	.....	2	.....	.....	.....	.....	.....	.....	.....
Drowning	1	.024	.008	.....	1	.....	.....	.....	1	.....	1	.....	.....	.....	.....	.....	.....	.....
Total suicides	21	.498	.158	.033	16	3	2	.....	19	2	18	3	.....	.....	.....	.....	.....	.....
Total violence	142	3.375	.671	1.013	64	17	44	17	81	61	108	34	6	9	14	9	38	1.941
Unknown*	3	.071	.017	.....	1	1	.....	.....	2	.....	1	1	1	1	.....	.....	3	.153
Total unknown	3	.071	.017	.....	1	1	.....	.....	2	.....	1	1	1	1	.....	.....	3	.153

*NOTE.—1 female; color unknown; 2 days old.

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 2.—*Judicial execution.*																												
Hanging	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total judicial executions	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 3.—*Homicide.*																												
Gunshot wound	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....
Infanticide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Fracture of skull	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abortion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Criminal neglect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total homicide	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	1	....	1	....	....	....	....	....	....
Order 4.—*Suicide.*																												
Jumping from building	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hanging	1	....	....	....	....	....	1	....	....	....	....	....	1	....	1	....	....	1	....	....	....	....	....	....	....	1	....	....	....
By laudanum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
By opium	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....
Gunshot wound	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cut throat	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Drowning	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total suicides	2	....	....	....	....	....	1	....	....	....	....	....	2	....	1	....	....	2	....	....	....	....	....	....	....	2	....	....	....
Total violence	4	1	6	....	6	....	3	2	2	....	6	....	12	1	15	2	2	2	....	1	5	1	1	2	6	2	2	3
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total second quarter.				January.				February.				March.				Total third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 2.—*Judicial execution.*																												
Hanging	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Total judicial executions	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Order 3.—*Homicide.*																												
Gunshot wound	....	....	....	1	....	....	1	....	....	....	....	....	....	....	1	....	....	....	2	....	....	....	1	....	....	....	....	....
Infanticide	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fracture of skull	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Abortion	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	..	....	....
Criminal neglect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....
Total homicide	....	1	....	1	1	....	1	....	....	....	....	....	....	1	1	....	1	1	2	....	....	....	1	....	1	....	....	....
Order 4.—*Suicide.*																												
Jumping from building	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hanging	1	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1	....	....	....	1	....	....	....	....
By laudanum	....	1	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....
By opium	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gunshot wound	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	2	....	....	2	....	....	....	....	....	....	....	....
Cut throat	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
Drowning	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....
Total suicides	2	2	....	....	....	....	....	2	1	1	....	1	....	....	....	....	3	1	1	....	4	....	....	....	1	....	....	....
Total violence	13	5	3	6	7	2	5	....	6	2	2	1	6	4	5	5	19	8	12	6	7	1	5	1	5	1	6	2
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....
Total unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 2.—*Judicial execution.*																												
Hanging	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total judicial executions	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 3.—*Homicide.*																												
Gunshot wound	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Infanticide	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fracture of skull	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abortion	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Criminal neglect	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total homicide	....	....	....	....	1	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 4.—*Suicide.*																												
Jumping from building	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hanging	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
By laudanum	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
By opium	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gunshot wound	2	....	....	....	4	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Cut throat	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Drowning	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total suicides	4	....	....	....	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1
Total violence	8	1	3	....	20	3	14	3	2	7	14	7	2	1	....	....	1	1	....	....	1	....	....	1	....	....	....	....
Unknown	....	....	....	....	1	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total unknown	....	....	....	....	1	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																												
Order 2.—*Judicial execution.*																												
Hanging	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Total judicial executions	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 3.—*Homicide.*																												
Gunshot wound	....	....	....	....	....	....	1	1	....	....	3	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Infanticide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Fracture of skull	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Abortion	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Criminal neglect	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total homicide	....	....	....	....	....	....	1	1	1	....	3	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Order 4.—*Suicide.*																												
Jumping from building	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Hanging	....	....	....	....	....	....	2	....	1	....	....	....	1	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
By laudanum	....	....	....	....	....	....	....	....	....	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
By opium	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Gunshot wound	....	....	....	....	....	....	....	....	2	....	....	....	3	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Cut throat	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....
Drowning	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....
Total suicides	....	....	....	....	....	....	2	....	4	2	....	....	6	....	....	....	2	1	....	....	2	....	....	....	1	....	....	....
Total violence	4	1	2	1	6	....	11	3	9	2	6	1	14	1	4	1	12	2	2	1	5	....	2	1	5	1	1	....
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Total unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Causes of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																								
Order 2.—*Judicial execution.*																								
Hanging																								
Total judicial executions																								
Order 3.—*Homicide.*																								
Gunshot wound																			3					
Infanticide																								
Fracture of skull																	1							
Abortion																						1		
Criminal neglect																								
Total homicide																	1		3			1		
Order 4.—*Suicide.*																								
Jumping from building																					1			
Hanging	1																	1			3			
By laudanum																		2						
By opium																					1			
Gunshot wound																	2				3			
Cut throat																	1							
Drowning																	1							
Total suicides	1																4	3			8			
Total violence	1				2		2		1								20	4	11	3	18	2	2	1
Unknown																								
Total unknown																								

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
CLASS V.—VIOLENCE.																								
Order 2.—*Judicial execution.*																								
Hanging			1												1									
Total judicial executions			1												1									
Order 3.—*Homicide.*																								
Gunshot wound											4					1								
Infanticide										1														
Fracture of skull									1															
Abortion														1										
Criminal neglect									1															
Total homicide									2	1	4			1		1								
Order 4.—*Suicide.*																								
Jumping from building													1											
Hanging	1								1		1		1		1		2	1						
By laudanum										1				1										
By opium	1												1				1							
Gunshot wound					1				1				2				3							
Cut throat	1												1				1							
Drowning																	1							
Total suicides	3				1				2	1	1		6	1	1		8	1						
Total violence	8	1	3		2		1		18	10	25	10	23	5	19	7	23	2						
Unknown									1	1														
Total unknown									1	1														

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTH AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION.													
					Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 years of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
RECAPITULATION.																		
I. Zymotic diseases	962	22.87	3.859	8.250	237	228	258	239	465	497	495	467	144	154	206	187	691	35.291
II. Constitutional diseases	1,103	26.22	4.258	9.794	251	262	264	326	513	590	515	588	39	43	94	86	262	13.381
III. Local diseases	1,584	37.65	6.698	12.838	444	363	386	391	807	777	830	754	132	147	247	229	755	38.560
IV. Developmental diseases	413	9.82	1.800	3.254	100	117	73	123	217	196	173	240	64	40	55	50	209	10.674
V. Violence	142	3.37	.672	1.013	64	17	44	17	81	61	108	34	6	9	14	9	38	1.941
Unknown	3	.07	.017	.....	1	1	.....	.....	2	.....	1	2	1	1	.....	.....	3	.153
Grand total	4,207	100.00	17.304	35.209	1,097	988	1,025	1,096	2,085	2,121	2,122	2,085	386	394	616	561	1,958	100.000
I. Miasmatic diseases	822	19.539	3.461	6.723	205	212	212	193	417	405	417	405	123	140	163	141	567	28.958
I. Enthetic diseases	18	.428	.058	.183	6	1	9	2	7	11	15	3	1	1	6	2	10	.511
I. Dietic diseases	117	2.782	.324	1.295	24	15	36	42	39	78	60	57	18	13	36	42	109	5.567
I. Parasitic diseases	5	.119	.017	.050	2	.....	1	2	2	3	3	2	2	.....	1	2	5	.255
II. Diathetic diseases	132	3.138	.705	.780	38	47	19	28	85	47	57	75	2	1	1	1	5	.255
II. Tubercular diseases	971	23.080	3.552	9.014	213	215	245	298	428	543	458	513	37	42	93	85	257	13.126
III. Diseases of the nervous system	571	13.573	2.307	4.864	158	120	145	148	278	293	303	268	65	66	111	92	334	17.058
III. Circulatory diseases	150	3.565	.714	1.062	50	36	30	34	86	64	80	70	.....	.....	.....	.....	.....	.....
III. Respiratory diseases	548	13.026	1.934	5.229	117	116	162	153	233	315	279	269	38	47	113	117	315	16.088
III. Digestive diseases	223	5.301	1.228	1.245	84	64	35	40	148	75	119	104	28	32	21	18	99	5.056
III. Diseases of the urinary system	75	1.783	.415	.415	32	18	14	11	50	25	46	29	.....	1	2	.....	3	.153
III. Diseases of the generative organs	9	.214	.050	.050	.....	6	.....	3	6	3	.....	9	.....	.....	.....	.....	.....	.....
III. Locomotory diseases	5	.119	.033	.017	2	2	.....	1	4	1	2	3	1	1	.....	1	3	.153
III. Integumentary diseases	3	.071	.017	.017	1	1	.....	1	2	1	1	2	.....	.....	.....	1	1	.051
IV. Diseases of children	210	4.992	.863	1.760	64	40	56	50	104	106	120	90	64	40	55	50	209	10.672
IV. Diseases of women	38	.903	.149	.332	.....	18	.....	20	18	20	.....	38	.....	.....	.....	.....	.....	.....
IV. Old age	150	3.566	.722	1.046	30	57	16	47	87	63	46	104	.....	.....	.....	.....	.....	.....
IV. Nutrition	15	.357	.066	.116	6	2	1	6	8	7	7	8	.....	.....	.....	.....	.....	.....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
I. Zymotic diseases	43	55	57	45	32	28	37	30	23	12	33	25	98	95	127	100	15	15	16	19	16	14	12	6	12	15	6	7
II. Constitutional diseases	20	22	22	33	20	23	17	25	22	16	20	23	62	61	59	81	17	19	7	17	16	15	19	23	18	28	19	25
III. Local diseases	49	36	32	31	30	22	30	16	34	25	25	33	113	83	87	80	31	16	26	24	32	28	17	35	38	26	35	36
IV. Developmental diseases	8	12	7	9	10	11	11	8	8	12	2	4	26	35	20	21	5	7	7	10	10	10	6	9	8	9	7	11
V. Violence	4	1	6	....	6	....	3	2	2	....	6	....	12	1	15	2	2	2	....	1	5	1	1	2	6	2	2	3
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grand total	124	126	124	118	98	84	98	81	89	65	86	85	311	275	308	284	70	59	56	71	79	68	55	75	82	80	69	82
I. Miasmetic diseases	42	49	49	37	28	26	29	25	19	12	28	21	89	87	106	83	15	13	14	16	13	13	10	4	8	15	4	6
I. Enthetic diseases	....	....	....	....	....	....	2	....	2	....	1	....	2	....	3	....	....	1	1	....	1	....	....	....	2	....	....	....
I. Dietic diseases	1	6	7	7	4	2	6	5	2	....	4	4	7	8	17	16	....	1	1	3	1	1	2	2	2	....	2	1
I. Parasitic diseases	....	....	1	1	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	1	....	....	....	....	....	....	....
II. Diathetic diseases	1	4	3	3	2	5	1	3	2	5	3	....	5	14	7	6	5	3	....	....	....	4	1	1	2	5	4	4
II. Tubercular diseases	19	18	19	30	18	18	16	22	20	11	17	23	57	47	52	75	12	16	7	17	16	11	18	2	16	23	15	21
III. Diseases of the nervous system	23	13	21	18	12	6	10	9	14	10	10	17	49	29	41	44	10	4	15	14	7	7	6	15	14	9	11	11
III. Circulatory diseases	5	4	....	2	4	1	1	2	4	3	3	2	13	8	4	6	6	3	3	1	3	1	3	5	6	5	3	5
III. Respiratory diseases	9	4	4	3	3	6	13	2	5	4	9	8	17	14	26	13	4	6	6	4	9	17	7	12	12	7	21	15
III. Digestive diseases	10	11	7	7	8	6	5	2	7	6	2	3	25	23	14	12	7	3	....	3	9	1	1	1	....	3	....	3
III. Diseases of the urinary system	2	4	....	1	3	2	1	....	4	1	1	2	9	7	2	3	3	....	2	2	4	1	....	2	6	2	....	1
III. Diseases of the generative organs	....	....	....	....	....	1	....	1	....	1	....	1	....	2	....	2	....	....	....	....	....	1	....	....	....	....	....	....
III. Locomotory diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1
III. Integumentary diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV. Diseases of children	7	5	4	2	5	5	11	3	4	4	1	1	16	14	16	6	4	....	2	5	8	1	4	5	7	6	7	4
IV. Diseases of women	....	2	....	3	....	....	....	1	....	....	....	....	....	2	....	4	....	1	....	2	....	3	....	1	....	2	....	....
IV. Old age	1	4	2	3	5	6	....	2	3	8	1	2	9	18	3	7	1	5	5	3	1	6	2	2	1	1	....	7
IV. Nutrition	....	1	1	1	....	....	....	2	1	....	....	1	1	1	1	4	....	1	....	....	1	....	....	1	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total, second quarter.				January.				February.				March.				Total, third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
I. Zymotic diseases	43	44	34	32	10	15	13	6	11	11	12	15	10	8	9	9	31	34	34	30	12	13	5	10	18	7	13	23
II. Constitutional diseases	51	62	45	65	26	17	24	26	25	26	20	31	22	20	43	22	73	63	87	79	28	26	27	25	17	28	23	36
III. Local diseases	101	70	78	95	39	34	34	34	39	44	40	43	40	31	37	46	118	109	111	123	35	23	45	31	38	35	34	30
IV. Developmental diseases	23	26	20	30	11	7	2	12	14	15	7	10	5	9	9	13	30	31	18	35	6	9	2	14	6	8	7	9
V. Violence	13	5	3	6	7	2	5	....	6	2	2	1	6	4	5	5	19	8	12	6	7	1	5	1	5	1	6	2
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....
Grand total	231	207	180	228	93	75	78	78	95	98	81	100	83	72	103	95	271	245	262	273	88	72	84	81	85	80	83	100
I. Miasmatic diseases	36	41	28	26	8	14	12	6	7	9	7	9	6	8	6	7	21	31	25	22	9	11	3	8	18	7	12	19
I. Enthetic diseases	3	1	1	....	....	....	1	....	....	....	....	....	....	....	3	....	....	....	4	....	1	....	....	....	....	....	....	....	1
I. Dietic diseases	3	2	5	6	2	1	....	....	3	2	5	6	4	....	....	2	9	3	5	8	2	2	2	2	....	....	1	3
I. Parasitic diseases	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....
II. Diathetic diseases	7	12	5	5	5	4	....	3	....	4	1	1	3	1	3	....	8	9	4	4	6	4	3	5	4	4	....	6
II. Tubercular diseases	44	50	40	60	21	13	24	23	25	22	19	30	19	19	40	22	65	54	83	75	22	22	24	20	13	24	23	30
III. Diseases of the nervous system	31	20	32	40	19	8	11	10	14	11	12	11	9	7	12	9	42	26	35	30	9	8	15	5	14	14	10	14
III. Circulatory diseases	15	9	9	11	3	1	2	3	3	3	1	3	4	3	2	6	10	7	5	12	5	5	4	1	4	4	4	1
III. Respiratory diseases	25	30	34	31	14	21	17	17	13	19	21	23	21	16	20	28	48	56	58	68	14	5	23	18	7	5	14	12
III. Digestive diseases	16	7	1	7	3	3	4	1	6	8	1	6	5	3	1	3	14	14	6	10	4	2	3	7	9	10	4	2
III. Diseases of the urinary system	13	3	2	5	....	1	....	2	1	2	5	....	1	1	2	....	2	4	7	2	3	3	....	....	4	....	2	....
III. Diseases of the generative organs	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	1	....	1
III. Locomotory diseases	1	....	....	1	....	....	....	....	1	....	....	....	....	1	....	....	1	1	....	....	....	....	....	....	....	1	....	....
III. Integumentary diseases	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	1	....	....	1	....	....	....	....	....	....	....	....
IV. Diseases of children	19	7	13	14	4	4	2	6	10	3	4	1	3	1	8	5	17	8	14	12	1	4	2	7	5	5	7	2
IV. Diseases of women	....	6	....	3	....	2	....	2	....	3	....	3	....	3	....	3	....	8	....	8	....	1	....	2	....	1	....	3
IV. Old age	3	12	7	12	5	1	....	3	2	9	3	6	2	5	1	5	9	15	4	14	5	4	....	5	1	2	....	4
IV. Nutrition	1	1	....	1	2	....	....	1	2	....	....	....	....	....	....	....	4	....	....	1	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year.				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
I. Zymotic diseases	35	35	45	44	65	55	63	77	100	89	144	127	21	35	39	45	11	12	15	8	5	12	5	3	7	6	3	4
II. Constitutional diseases	20	22	23	40	65	76	73	101	26	22	36	31	9	12	28	28	2	5	15	16	2	4	7	5	....	....	8	6
III. Local diseases	39	43	31	32	112	101	110	93	93	99	164	132	19	30	48	57	11	12	24	21	6	4	9	10	3	2	2	9
IV. Developmental diseases	9	8	6	14	21	25	15	37	64	40	55	50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
V. Violence	8	1	3	....	20	3	14	3	2	7	14	7	2	1	....	....	1	1	....	....	1	....	....	1	....	....	....	1
Unknown	....	....	....	....	1	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grand total	111	109	108	130	284	261	275	311	286	258	413	347	51	78	115	130	25	30	54	45	14	20	21	19	10	8	13	20
I. Miasmatic diseases	32	35	38	35	59	53	53	62	80	77	107	88	20	33	35	39	11	12	14	7	5	12	4	3	7	6	3	4
I. Enthetic diseases	....	....	1	1	1	....	1	2	1	1	4	1	....	....	2	1	....	....	....	....	....	....	....	....	....	....	....	....
I. Dietic diseases	3	....	6	7	5	2	9	12	17	11	32	36	1	2	2	5	....	....	1	1	....	....	1	....	....	....	....	....
I. Parasitic diseases	....	....	....	1	....	....	....	1	2	....	1	2	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
II. Diathetic diseases	8	4	....	2	18	12	3	13	1	1	....	....	1	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....
II. Tubercular diseases	12	18	23	38	47	64	70	88	25	21	36	31	8	12	28	28	2	5	14	15	2	4	7	5	....	....	8	6
III. Diseases of the nervous system	13	23	12	15	36	45	37	34	44	50	91	75	11	10	12	7	6	5	5	4	3	....	2	3	1	1	1	3
III. Circulatory diseases	3	3	4	3	12	12	12	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
III. Respiratory diseases	6	6	7	11	27	16	44	41	25	28	63	46	8	10	29	43	2	6	14	17	2	2	6	6	1	1	1	5
III. Digestive diseases	16	8	7	2	29	20	14	11	24	20	10	10	....	10	5	7	3	1	5	....	....	....	1	1	1	1	....	....
III. Diseases of the urinary system	1	1	1	1	8	4	3	1	....	....	....	....	....	....	2	....	....	....	....	....	....	....	1	....	....	....	....	....
III. Diseases of the generative organs	....	1	....	....	....	2	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
III. Locomotory diseases	....	....	....	....	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	1
III. Integumentary diseases	....	1	....	....	....	1	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV. Diseases of children	6	2	4	9	12	11	13	18	64	40	55	50	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV. Diseases of women	....	....	....	....	....	2	....	5	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV. Old age	3	6	2	5	9	12	2	14	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV. Nutrition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
I. Zymotic diseases	19	14	7	12	8	9	12	7	10	8	8	9	12	8	3	8	11	5	6	2	11	10	5	5	11	9	6	5
II. Constitutional diseases	1	2	13	17	10	19	13	34	39	54	47	79	45	51	35	41	49	33	23	27	23	25	25	22	32	17	5	9
III. Local diseases	13	9	14	13	9	10	8	10	19	20	14	20	36	20	24	21	57	34	26	20	60	36	21	22	62	43	16	25
IV. Developmental diseases	....	....	1	....	....	3	....	2	....	4	....	9	....	10	....	10	....	2	....	2	2	....	1	....	6	7	2	5
V. Violence	4	1	2	1	6	....	11	3	9	2	6	1	14	1	4	1	12	2	2	1	5	....	2	1	5	1	1	....
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grand total	37	26	37	43	33	41	44	56	77	88	75	118	107	90	66	81	129	76	57	52	101	71	54	50	116	77	30	44
I. Miasmatic diseases	19	14	7	12	8	9	10	7	8	7	7	9	9	7	3	8	8	5	6	2	10	10	5	5	10	9	6	5
I. Enthetic diseases	....	....	....	....	....	....	2	....	2	....	1	....	1	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....
I. Dietic diseases	....	....	....	....	....	....	....	....	....	1	....	....	2	1	....	....	2	....	....	....	1	....	....	....	1	....	....	....
I. Parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
II. Diathetic diseases	....	1	1	1	1	1	....	....	....	3	3	7	2	7	1	1	8	10	1	5	9	8	6	7	9	6	....	2
II. Tubercular diseases	1	1	12	16	9	18	13	34	39	51	44	72	43	44	34	40	41	23	22	22	14	17	19	15	23	11	5	7
III. Diseases of the nervous system	3	....	3	3	1	....	3	2	3	4	2	5	12	3	3	6	11	10	5	7	28	8	3	7	13	15	7	12
III. Circulatory diseases	1	1	1	2	3	2	2	3	3	3	6	....	3	4	5	7	10	4	4	6	14	5	7	7	10	9	4	4
III. Respiratory diseases	8	5	9	3	2	5	2	2	8	6	4	10	12	4	9	5	17	10	11	3	8	11	7	1	10	13	4	5
III. Digestive diseases	1	3	....	3	2	2	....	2	3	2	2	3	4	4	4	3	12	4	2	3	6	6	4	4	19	6	1	1
III. Diseases of the urinary system	....	....	1	2	1	....	1	1	1	3	....	1	5	4	3	....	6	3	4	1	4	5	....	2	10	....	....	3
III. Diseases of the generative organs	....	....	....	....	....	1	....	....	....	2	....	1	....	....	....	....	....	2	....	....	....	1	....	1	....	....	....	....
III. Locomotory diseases	....	....	....	....	....	....	....	....	1	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
III. Integumentary diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....	....	....	....	....	....	....	....	....
IV. Diseases of children	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
IV. Diseases of women	....	....	....	....	....	3	....	2	....	4	....	9	....	10	....	8	....	1	....	1	....	....	....	....	....	....	....	....
IV. Old age	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	2	7	1	4
IV. Nutrition	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	....	1	....	1	2	....	....	....	4	....	1	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																								
I. Zymotic diseases	10	9	5	3	....	2	....	1	1	....	....	....	....	....	....	....	32	23	18	14	20	11	11	8
II. Constitutional diseases	12	14	8	9	1	3	1	2	....	1	....	....	....	....	....	....	116	89	73	92	69	56	53	49
III. Local diseases	40	33	10	19	13	9	5	10	3	2	1	1	....	....	....	1	163	89	76	48	76	28	25	22
IV. Developmental diseases	12	25	6	12	12	22	6	18	4	3	2	5	....	1	....	10	13	19	10	22	1	11	.....	8
V. Violence	1	....	....	....	2	....	2	....	....	1	....	....	....	....	....	....	20	4	11	3	18	2	2	1
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Grand total	75	81	29	43	28	36	14	31	8	7	3	6	....	1	....	11	344	224	188	179	184	108	91	88
I. Miasmatic diseases	9	9	5	3	....	2	....	1	1	....	....	....	....	....	....	....	29	21	18	14	14	11	10	8
I. Enthetic diseases	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	2	.....	.....	.....	3	.....	1	.....
I. Dietic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	2	.....	.....	3	.....	.....	.....
I. Parasitic diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
II. Diathetic diseases	6	7	6	2	1	2	....	2	....	1	....	....	....	....	....	....	27	21	11	8	2	8	2	5
II. Tubercular diseases	6	7	2	7	....	1	1	....	....	....	....	....	....	....	....	....	89	68	62	84	67	48	51	44
III. Diseases of the nervous system	13	10	4	8	7	3	3	5	2	1	1	....	....	....	....	1	43	26	16	13	26	7	4	7
III. Circulatory diseases	6	7	1	2	....	1	....	2	....	....	....	1	....	....	....	....	26	15	14	9	13	3	10	3
III. Respiratory diseases	8	11	1	6	5	4	2	1	1	....	....	....	....	....	....	....	35	22	28	12	26	9	7	9
III. Digestive diseases	8	4	1	2	1	....	....	1	....	1	....	....	....	....	....	....	37	14	11	9	6	4	3	1
III. Diseases of the urinary system	5	1	3	....	....	1	....	1	....	....	....	....	....	....	....	....	21	7	7	3	4	3	1	2
III. Diseases of the generative organs	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	.....	3	.....	2	.....	2	.....	.....
III. Locomotory diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	1	.....	.....	1	.....	.....	.....
III. Integumentary diseases	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	.....	.....	.....	.....	.....	.....
IV. Diseases of children	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
IV. Diseases of women	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	15	.....	13	.....	.....	.....	4
IV. Old age	12	24	6	10	12	22	6	18	4	3	2	5	....	....	....	10	8	4	10	6	1	10	.....	3
IV. Nutrition	....	1	....	2	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	5	.....	.....	3	.....	1	.....	1

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.															
	Widow or widower.				Unknown.				District of Columbia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																								
I. Zymotic diseases	12	17	3	10	2	....	1	1	166	180	214	199	49	32	44	40	22	16	....	....	....	....	....	....
II. Constitutional diseases	13	53	17	48	3	....	1	....	98	130	125	138	104	93	138	186	49	39	1	2	....	....	....	....
III. Local diseases	46	80	12	66	5	....	4	3	181	185	266	264	143	126	116	126	120	52	1	....	....	....	3	1
IV. Developmental diseases	20	44	7	40	2	....	....	1	65	52	56	57	17	39	17	66	18	26	....	....	....	....	....	....
V. Violence	8	1	3	....	2	....	1	....	18	10	25	10	23	5	19	7	23	2	....	....	....	....	....	....
Unknown	....	....	....	....	....	....	....	....	1	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Grand total	99	195	42	164	14	....	7	5	529	558	686	668	336	295	334	425	232	135	2	2	....	....	3	1
I. Miasmatic diseases	10	17	3	10	2	....	1	1	143	165	174	154	44	32	38	39	18	15	....	....	....	....	....	....
I. Enthetic diseases	....	....	....	....	....	....	....	....	2	1	5	2	4	.....	4	.....	....	....	....	....	....	....	....	....
I. Dietic diseases	2	....	....	....	....	....	....	....	19	14	34	41	1	.....	2	1	4	1	....	....	....	....	....	....
I. Parasitic diseases	....	....	....	....	....	....	....	....	2	.....	1	2	.....	.....	.....	.....	....	....	....	....	....	....	....	....
II. Diathetic diseases	6	15	4	13	....	....	....	....	8	18	2	5	21	20	17	23	9	9	....	....	....	....	....	....
II. Tubercular diseases	7	38	13	35	3	....	1	...	90	112	123	133	83	73	121	163	40	30	1	2	....	....	....	....
III. Diseases of the nervous system	18	21	7	29	2	...	1	2	74	68	118	106	46	40	26	42	38	12	....	....	....	....	1	....
III. Circulatory diseases	5	15	3	17	2	....	....	....	11	9	5	8	20	19	24	25	19	8	1	....	....	....	....	1
III. Respiratory diseases	8	28	2	9	....	....	1	1	50	60	119	122	41	37	42	31	26	19	....	....	....	....	1	....
III. Digestive diseases	9	9	....	7	1	....	....	....	36	41	20	21	21	16	15	19	27	7	....	....	....	....	....	....
III. Diseases of the urinary system	6	7	....	3	....	....	2	....	9	5	4	5	14	10	9	6	9	3	....	....	....	....	1	....
III. Diseases of the generative organs	....	....	....	1	....	....	....	....	.....	1	.....	.....	.....	3	.....	3	....	2	....	....	....	....	....	....
III. Locomotory diseases	....	....	....	....	....	....	....	....	1	1	.....	1	1	1	.....	.....	....	....	....	....	....	....	....	....
III. Integumentary diseases	....	....	....	....	....	....	....	....	.....	.....	.....	1	.....	.....	.....	.....	1	1	....	....	....	....	....	....
IV. Diseases of children	....	....	....	....	....	....	....	....	64	37	56	50	.....	3	.....	.....	....	....	....	....	....	....	....	....
IV. Diseases of women	....	....	....	1	....	....	....	....	.....	8	.....	5	.....	8	.....	15	....	2	....	....	....	....	....	....
IV. Old age	20	43	6	38	1	....	....	....	.....	7	.....	2	15	28	16	45	15	22	....	....	....	....	....	....
IV. Nutrition	....	1	1	1	1	....	....	1	1	.....	.....	.....	2	.....	1	6	3	2	....	....	....	....	....	....

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	Total deaths from each cause.	Per cent. of each cause to total mortality.	DEATH-RATE. Deaths per 1,000 inhabitants.		RECAPITULATION. Total by color and sex.				Total by color.		Total by sex.		Total under 5 years.				Total.	Per cent. of each cause to total mortality under 5 years of age.
					W.		C.						W.		C.			
			W.	C.	M.	F.	M.	F.	W.	C.	M.	F.	M.	F.	M.	F.		
RECAPITULATION.																		
V. Accidents and negligence	111	2.638	.481	.880	46	12	37	16	58	53	83	28	5	8	14	9	36	1.839
V. Homicide	9	.215	.032	.083	2	2	4	1	4	5	6	3	1	1	.....	.....	2	.102
V. Suicide	21	.498	.158	.033	16	3	2	.....	19	2	18	3	.....	.....	.....	.....	.....	.....
V. Judicial execution	1	.024	.....	.017	.....	.....	1	.....	.....	1	1	.....	.....	.....	.....	.....	.....	.....
*Unknown	3	.071	.017	.....	1	1	.....	.....	2	.....	1	2	1	1	.....	.....	3	.153
Grand total from all causes by sex	4,027	100.00	17.304	35.209	1,097	988	1,025	1,096	2,085	2,121	2,122	2,085	386	394	616	561	1,958	100.00
Grand total from all causes by color	.....	.....	.....	.....	2,085		2,125		.....	.....	.....	.....	780		1,177		.....	.....
Percentages from all causes by color in each period of life to total mortality	.....	.....	.....	.....	49.560		50.416		.....	.....	.....	.....	18.54		27.98		.....	.....
Rate of deaths per 1,000 inhabitants (white and colored)	.....	.....	.....	.....	17.306		35.209		.....	.....	.....	.....	6.47		19.54		.....	.....
Death-rate per 1,000 inhabitants (total)	23.370	.....	.....	.....	11.582		11.783		.....	.....	.....	.....	4.33		6.54		.....	.....

*NOTE. One female under 5 years, color unknown.

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.																											
	July.				August.				September.				Total first quarter.				October.				November.				December.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
V. Accidents and negligence	2	1	6	....	6	....	2	2	2	....	5	....	10	1	13	2	2	....	....	....	5	....	1	2	4	2	2	3
V. Homicide	....	....	....	....	....	....	....	....	....	....	1	....	....	....	1	....	....	....	....	1	....	1	....	....	....	....	....	....
V. Suicide	2	....	....	....	....	....	1	....	....	....	....	....	2	....	1	....	....	2	....	....	....	....	....	....	2	....	....	....
V. Judicial execution	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grand total from all causes by sex	124	126	124	118	98	84	98	81	89	65	86	85	311	275	308	284	70	59	56	71	79	68	55	75	82	80	69	82
Grand total from all causes by color	250		242		182		179		154		171		586		592		129		127		147		130		162		151	
Percentages from all causes by color in each period of life to total mortality	5.94		5.75		4.34		4.25		3.66		4.06		13.93		14.07		3.07		3.02		3.49		3.09		3.85		3.59	
Rate of deaths per 1,000 inhabitants (white and colored)	2.07		4.02		1.51		2.98		1.28		2.84		4.87		9.83		1.07		2.11		1.22		2.16		1.34		2.51	
Death-rate per 1,000 inhabitants (total)	1.39		1.34		1.01		.99		.85		.95		3.25		3.29		.72		.71		.82		.72		.90		.84	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1879.				1880.																							
	Total, second quarter.				January.				February.				March.				Total, third quarter.				April.				May.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
V. Accidents and negligence	11	2	3	5	6	2	4	....	4	1	1	1	5	3	4	5	15	6	9	6	3	1	3	1	3	1	6	2
V. Homicide	....	1	....	1	1	....	1	....	....	....	....	....	....	1	1	....	1	1	2	....	....	....	1	....	1	....	....	....
V. Suicide	2	2	....	....	....	....	....	....	2	1	1	....	1	....	....	....	3	1	1	....	4	....	....	....	1	....	....	....
V. Judicial execution	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	1	....	....
Grand total from all causes by sex	231	207	180	228	93	75	78	78	95	98	81	100	83	72	103	95	271	245	262	273	88	72	84	81	85	80	83	100
Grand total from all causes by color	438		408		168		156		193		181		155		198		516		535		160		165		165		183	
Percentages from all causes by color in each period of life to total mortality	10.41	9.70	3.99	3.71	4.59	4.30	3.68	4.71	12.27	12.72	3.80	3.92	3.92	4.35														
Rate of deaths per 1,000 inhabitants (white and colored)	3.63	6.77	1.39	2.57	1.60	3.00	1.29	3.29	4.28	8.86	1.33	2.74	1.37	3.04														
Death-rate per 1,000 inhabitants (total)	2.43	2.27	.93	.86	1.07	1.00	.86	1.10	2.87	2.97	.89	.92	.92	1.02														

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	1880.								AGE OF DECEDENT.																			
	June.				Total fourth quarter.				Under 1 year				1 to 2 years.				2 to 3 years.				3 to 4 years.				4 to 5 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
V. Accidents and negligence	4	1	3	....	10	3	12	3	1	6	14	7	2	1	....	....	1	1	....	....	1	....	....	1	....	....	....	1
V. Homicide	....	....	....	....	1	....	1	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
V. Suicide	4	....	....	....	9	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
V. Judicial execution	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Unknown	....	....	....	....	1	1	....	....	1	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grand total from all causes by sex	111	109	108	130	284	261	275	311	286	258	413	347	51	78	115	130	25	30	54	45	14	20	21	19	10	8	13	20
Grand total from all causes by color	220		238		545		586		544		760		129		245		55		99		34		40		18		33	
Percentages from all causes by color in each period of life to total mortality	5.23		5.66		12.95		13.93		12.93		18.06		3.07		5.82		1.31		2.35		.81		.96		.43		.78	
Rate of deaths per 1,000 inhabitants (white and colored)	1.83		3.95		4.52		9.73		4.51		12.62		.99		4.07		.46		1.64		.28		.66		.15		.55	
Death-rate per 1,000 inhabitants (total)	1.22		1.32		3.03		3.26		3.02		4.22		.72		1.36		.31		.55		.19		.22		.10		.18	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																											
	5 to 10 years.				10 to 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 to 60 years.				60 to 70 years.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																												
V. Accidents and negligence	4	1	2	1	6	....	8	2	4	....	3	1	8	....	3	1	10	1	2	1	3	....	2	1	4	1	1	....
V. Homicide	....	....	....	....	....	....	1	1	1	....	3	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....
V. Suicide	....	....	....	....	....	....	2	....	4	2	....	....	6	....	....	....	2	1	....	....	2	....	....	....	1	....	....	....
V. Judicial execution	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	....	....	....	....	....	....	....	....	....	....	....	....	....
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....
Grand total from all causes by sex	37	26	37	43	33	41	44	56	77	88	75	118	107	90	66	81	129	76	57	52	101	71	54	50	116	77	30	44
Grand total from all causes by color	63		80		74		100		165		193		197		147		205		109		172		104		193		74	
Percentages from all causes by color in each period of life to total mortality	1.50		1.90		1.76		2.38		3.92		4.59		4.68		3.49		4.87		2.59		4.09		2.47		4.59		1.76	
Rate of deaths per 1,000 inhabitants (white and colored)	.52		1.33		.61		1.66		1.37		3.20		1.63		2.44		1.70		1.81		1.43		1.73		1.60		1.23	
Death-rate per 1,000 inhabitants (total)	.35		.44		.41		.56		.92		1.07		1.09		.82		1.14		.61		.96		.58		1.07		.41	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	AGE OF DECEDENT.																SOCIAL RELATIONS.							
	70 to 80 years.				80 to 90 years.				90 to 100 years.				Above 100 years.				Married.				Single.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																								
V. Accidents and negligence	....	....	....	....	2	....	2	....	....	1	....	....	....	....	....	....	15	1	8	3	10	1	2	1
V. Homicide	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	1	.....	3	.....	.....	1	.....	.....
V. Suicide	1	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	4	3	.....	.....	8	.....	.....	.....
V. Judicial execution	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Unknown	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	....	.....	.....	.....	.....	.....	.....	.....	.....
Grand total from all causes by sex	75	81	29	43	28	36	14	31	8	7	3	6	....	1	....	11	344	224	188	179	184	108	91	88
Grand total from all causes by color	156		72		64		45		15		9		1		11		568		367		292		179	
Percentages from all causes by color in each period of life to total mortality	3.71		1.71		1.52		1.07		.36		.21		.02		.26		13.50		8.72		6.94		4.25	
Rate of deaths per 1,000 inhabitants (white and colored)	1.29		1.19		.53		.75		.12		.15		.01		.18		4.71		6.09		2.42		2.97	
Death-rate per 1,000 inhabitants (total)	.87		.40		.35		.25		.08		.05		.005		.06		3.15		2.04		1.62		.99	

TABLE I.—DEATHS.—SHOWING TOTAL NUMBER OF DEATHS OCCURRING IN THE DISTRICT OF COLUMBIA, ARRANGED BY CLASSES AND ORDERS, SEX AND COLOR, MONTHS AND QUARTERS, WITH PERCENTAGES AND DEATH-RATES, FOR THE YEAR ENDING JUNE 30, 1880.

Cause of death.	SOCIAL RELATIONS.								NATIVITY.													
	Widow or widower.				Unknown.				District of Columaia.				Other parts of United States.				Foreign.				Unknown.			
	W.		C.		W.		C.		W.		C.		W.		C.		W.		C.		W.		C.	
	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.	M.	F.
RECAPITULATION.																								
V. Accidents and negligence	5	1	2	....	1	....	1	....	14	8	20	10	17	3	17	6	15	1	....	....	....	....	....	....
V. Homicide	....	....	....	....	....	....	....	....	2	1	4	.....	.....	1	.....	1	....	....	....	....	....	....	....	....
V. Suicide	3	....	....	....	1	....	....	....	2	1	1	.....	6	1	1	.....	8	1	....	....	....	....	....	....
V. Judicial execution	....	....	1	....	....	....	....	....	.....	.....	.....	.....	.....	.....	1	.....	....	....	....	....	....	....	....	....
Unknown	....	....	....	....	....	....	....	....	1	1	.....	.....	.....	.....	.....	.....	....	....	....	....	....	....	....	....
Grand total from all causes by sex	99	195	42	164	14	....	7	5	529	558	686	668	336	295	334	425	232	135	2	2	....	....	3	1
Grand total from all causes by color	294		206		14		12		1,087		1,354		631		759		367		4		.....		4	
Percentages from all causes by color in each period of life to total mortality	6.99		4.90		.33		.28		25.84		30.90		15.00		18.04		8.72		.09		.....		.09	
Rate of deaths per 1,000 inhabitants (white and colored)	2.44		3.42		.12		.20		9.02		22.48		5.24		12.60		3.05		.07		.....		.07	
Death-rate per 1,000 inhabitants (total)	1.63		1.14		.08		.07		6.04		7.22		3.50		4.22		2.04		.02		.....		.02	

NOTE.—Under the heading "Social Relations," only those decedents of the age of 20 years and over are included.

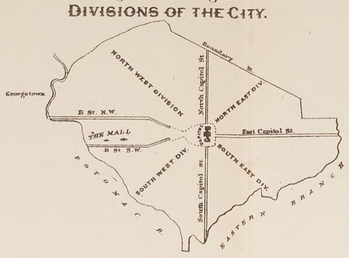
TABLE .III—DEATHS.—*Location of deaths and births, year ending June* 30, 1880.

Diseases.	Georgetown.		Washington.														County.						Hospitals and other public institutions.	
	1st division.	2d division.	3d division.	4th division.	5th division.	6th division.	7th division.	8th division.	9th division.	10th division.	11th division.	12th division.												
	West of High street.	East of High street.	South of K, west of 15th northwest.	North of K, west of Vermont avenue northwest.	North of Massachusetts avenue, east of Vermont avenue, west of 1st west, northwest.	North of B south, east of 15th, south of Massachusetts avenue, west of 1st west, northwest.	South of B south, west of 1st west, and Delaware avenue southwest.	East of Delaware avenue, south of E southeast.	North of E southeast, east of 1st west, south of Maryland avenue northeast.	East of 1st west, north of Maryland avenue northeast.	West of Eastern Branch.	East of Eastern Branch.												
	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.	W.	C.
Phthisis pulmonalis	16	10	13	21	18	25	22	52	43	49	46	34	47	57	23	11	16	42	22	14	12	15	4	21	52	61
Pneumonia	5	3	3	4	7	11	9	29	20	29	20	7	12	37	11	6	11	18	20	17	3	13	8	6	13	6
Cholera infantum	5	1	5	6	7	6	8	20	14	20	9	6	11	12	10	3	9	9	13	5	7	5	2	....	5	.....
Scarlet fever	....	....	....	....	....	....	10	4	5	.....	1	1	.....	.....	1	....	1	....	3	....	....	2	....	....	.....	.....
Diphtheria	1	....	1	....	2	....	3	2	1	3	2	....	3	.....	2	....	3	....	3	1	2	....	....	....	.....	.....
Typhoid fever	....	1	3	....	4	2	5	10	6	4	3	1	3	7	1	1	3	2	9	2	3	5	....	1	3	5
Malarial fevers	2	1	....	....	....	5	....	6	3	6	5	....	3	4	5	3	5	4	6	1	....	1	2	1	4	1
Diarrhœal diseases	5	1	3	4	2	4	9	22	14	29	11	8	7	18	11	9	9	11	13	2	5	11	1	13	19	20
All other diseases	54	26	33	44	77	80	110	225	150	160	219	69	130	160	79	49	80	90	101	57	63	66	17	34	158	133
Totals	88	43	61	79	117	133	176	370	256	300	316	126	216	295	143	82	137	176	190	99	95	118	34	76	254	226
Percentage to total deaths, by color	4. 22	2. 03	2. 93	3. 73	5. 61	6. 28	8. 44	17. 45	12. 28	14. 14	15. 16	5. 94	10. 46	13. 9	6. 86	3. 87	6. 58	8. 29	9. 11	4. 66	4. 55	5. 56	1. 63	3. 59	12. 18	10. 56
Births	66	34	71	60	119	104	206	319	3s6	304	301	123	334	303	185	88	184	116	245	71	88	105	31	48	81	123
Percentage to total births, by color	2. 87	1. 89	3. 09	3. 34	5. 18	5. 78	8. 97	17. 74	16. 80	16. 91	13. 10	6. 84	14. 54	16. 85	8. 05	4. 90	8. 01	6. 45	10. 67	3. 95	3. 83	5. 84	1. 35	2. 67	3. 53	6. 84

NOTE.--One female, color unknown, died in division 9. Under the head of malarial fevers are included malarial, remittent, intermittent, congestive, pernicious, simple continued, and typho-malarial fevers.

Map
of
WASHINGTON and GEORGETOWN

Diagram showing the
DIVISIONS OF THE CITY.



EXPLANATIONS.

Combined numbers show total deaths on each square.

Deaths of white persons are indicated by numbers in red, those of colored persons in blue.

Deaths in Georgetown could not be located owing to irregularity in numbering houses.

H. Ex. Doc. 1, Pt. VI

TABLE IV.—DEATHS.—*Deaths under one year of age, arranged monthly, year ending June 30, 1880.*

	1 day and under.	1 day to 1 week.	1 week to 1 month.	1 to 2 months.	2 to 3 months.	3 to 4 months.	4 to 5 months.	5 to 6 months.	6 to 7 months.	7 to 8 months.	8 to 9 months.	9 to 10 months.	10 to 11 months.	11 to 12 months.	Totals.
July, 1879:															
White males	1	3	6	4	4	6	4	4	4	5	6	3	3	4	57
females	2	1	5	5	5	2	4	5	11	4	1	2	5	2	54
Colored males	1	3	6	5	6	6	2	5	5	4	5	8	3	7	66
females	....	....	8	3	3	3	4	5	4	4	5	2	....	2	43
Total	4	7	25	17	18	17	14	19	24	17	17	15	11	15	220
August, 1879:															
White males	2	2	3	1	1	3	4	2	1	1	1	6	....	....	27
females	2	1	4	2	2	2	1	1	5	1	2	1	2	1	27
Colored males	3	3	6	7	7	4	1	2	3	4	4	1	1	2	48
females	1	....	8	....	2	2	6	...	....	2	....	2	2	2	27
Total	8	6	21	10	12	11	12	5	9	8	7	10	5	5	129
September, 1879:															
White males	3	2	5	1	....	3	2	1	....	2	1	1	1	....	22
females	1	2	1	1	2	....	2	....	...	....	1	1	3	....	14
Colored males	....	4	1	1	7	2	....	1	1	....	2	2	3	2	26
females	....	6	4	2	3	....	2	1	1	....	1	1	1	2	24
Total	4	14	11	5	12	5	6	3	2	2	5	5	8	4	86
October, 1879:															
White males	1	1	6	1	1	1	....	....	....	....	1	....	....	....	12
females	....	....	....	3	....	....	....	1	....	....	....	....	....	....	4
Colored males	....	5	8	1	1	2	2	1	....	....	2	2	1	....	25
females	2	6	4	4	1	1	....	2	....	1	1	....	....	....	22
Total	3	12	18	9	3	4	2	4	....	1	4	2	1	....	63
November, 1879:															
White males	1	4	3	2	2	....	....	....	1	1	....	1	....	1	16
females	1	....	3	2	1	1	....	....	1	....	....	....	....	....	9
Colored males	3	2	3	1	2	1	1	....	....	3	....	2	....	1	19
females	1	6	4	3	2	1	2	....	1	....	....	1	....	....	21
Total	6	12	13	8	7	3	3	....	3	4	....	4	....	2	65
December, 1879:															
White males	5	3	3	1	....	1	1	....	....	....	....	....	....	....	14
females	5	1	3	...	...	1	1	....	....	....	....	...	....	....	11
Colored males	3	3	7	2	2	2	....	....	1	1	3	1	1	1	27
females	2	1	1	2	2	3	....	1	2	2	1	1	1	2	21
Total	15	8	14	5	4	7	2	1	3	3	4	2	2	3	73
January, 1880:															
White males	1	1	4	....	1	1	4	1	....	1	....	....	1	1	16
females	1	2	5	1	2	2	1	1	....	2	....	....	2	....	19
Colored males	2	....	4	1	2	....	2	1	2	1	1	....	....	....	16
females	2	4	6	....	1	....	....	3	1	1	....	....	2	....	20
Total	6	7	19	2	6	3	7	6	3	5	1	....	5	1	71
February, 1880:															
White males	6	3	4	....	1	2	....	1	....	4	....	....	....	....	21
females	2	4	2	4	2	...	2	2	2	....	1	1	....	....	22
Colored males	4	4	5	1	1	2	....	....	2	2	....	1	2	2	26
females	2	1	3	....	3	5	2	2	1	1	....	1	1	....	22
Total	14	12	14	5	7	9	4	5	5	7	1	3	3	2	91
March, 1880:															
White males	2	....	2	2	....	2	....	1	1	1	....	....	1	1	13
females	1	....	3	2	1	....	2	1	....	....	2	....	....	1	13
Colored males	8	3	2	1	1	4	4	2	2	4	2	2	....	....	35
females	3	3	5	1	....	4	2	1	1	1	3	2	....	....	26
Total	14	6	12	6	2	10	8	5	4	6	7	4	1	2	87

TABLE IV.—DEATHS.—*Deaths under one year of age, &c.*—Continued.

	1 day and under.	1 day to 1 week.	1 week to 1 month.	1 to 2 months.	2 to 3 months.	3 to 4 months.	4 to 5 months.	5 to 6 months.	6 to 7 months.	7 to 8 months.	8 to 9 months.	9 to 10 months.	10 to 11 months.	11 to 12 months.	Totals.
April, 1880:															
White males	....	1	....	3	2	....	1	1	1	....	3	....	1	....	13
females	4	1	....	2	....	....	1	1	1	1	2	....	1	1	15
Colored males	2	2	3	3	7	6	3	....	2	2	2	1	....	....	33
females	3	2	3	4	2	1	1	....	3	1	2	....	1	....	23
Total	9	6	6	12	11	7	6	2	7	4	9	1	3	1	84
May, 1880:															
White males	5	1	2	2	3	....	2	....	3	2	5	2	2	....	29
females	3	2	....	....	3	4	4	1	2	1	....	1	1	....	22
Colored males	3	1	7	3	5	....	2	3	3	2	1	....	1	1	32
females	2	3	4	1	3	2	1	2	2	3	3	2	1	2	31
Total	13	7	13	6	14	6	9	6	10	8	9	5	5	3	114
June, 1880:															
White males	2	3	4	2	1	4	9	6	5	1	5	3	1	1	47
females	....	....	1	3	3	3	10	6	3	6	7	3	2	1	48
Colored males	3	3	3	6	2	10	6	6	10	3	1	3	3	1	60
females	6	6	6	3	10	5	6	6	1	5	3	4	3	3	67
Total	11	12	14	14	16	22	31	24	19	15	16	13	9	6	222
Total white males	29	24	42	19	16	23	27	17	16	18	22	16	10	8	287
Total white females	22	14	27	25	21	15	28	19	25	15	16	9	16	6	258
Total white	51	38	69	44	37	38	55	36	41	33	38	25	26	14	545
Total colored males	32	33	55	32	43	39	23	21	31	26	23	23	15	17	413
Total colored females	24	38	56	23	32	27	26	23	17	21	19	16	12	13	347
Total colored	56	71	111	55	75	66	49	44	48	47	42	39	27	30	760
Grand total	107	109	180	99	112	104	104	80	89	80	80	64	53	44	1305

TABLE V.—DEATHS.—*Number of deaths of children under five years of age from the principal diseases of children, year ending June* 30, 1880.

Diseases.	White.		Colored.	
	Deaths.	Percentage to total mortality of whites under 5 years of age.	Deaths.	Percentage to total mortality of colored under 5 years of age.
Measles	.....	.....	1	.08
Croup	22	2.82	17	1.45
Diphtheria	16	2.06	4	.34
Scarlet fever	13	1.66	6	.51
Typhoid and malarial fevers	13	1.66	15	1.28
Diarrhœal diseases, except cholera infantum	56	7.18	126	10.69
Cholera infantum	105	13.46	93	7.90
Whooping-cough	18	2.31	31	2.63
Inanition	31	4.01	78	6.62
Scrofula, tuberculosis, marasmias, and tabes	48	6.17	68	5.77
Hydrocephalus and tubercular meningitis	18	2.30	21	1.78
Phthisis pulmonalis	8	1.02	73	6.19
Acute diseases of brain	54	6.92	32	2.72
Convulsions	36	4.61	103	8.74
Trismus	13	1.66	38	3.23
Bronchitis and congestion of lungs	32	4.11	87	7.39
Pneumonia	50	6.41	141	11.97
Diseases of digestive organs	60	7.70	39	3.31
Developmental diseases of children	104	13.33	105	8.91
Accidents and negligence	13	1.66	23	1.95
All others	70	8.97	77	6.54
Total deaths	780	100.	1,178	100.
Percentage to total mortality by color	37.41		55.54	
Annual death-rate by color	6.50		19.63	

TABLE VI.—DEATHS.—*Number dying, seventy years of age and over, year ending June* 30, 1880.

	White.		Colored.		Total.
	Male.	Female.	Male.	Female.	
70 years	6	8	10	15	39
71 years	4	7	.....	.....	11
72 years	11	7	3	2	23
73 years	9	8	2	.....	19
74 years	10	6	.....	2	18
75 years	8	8	10	15	41
76 years	6	12	1	2	21
77 years	3	7	.....	1	11
78 years	11	3	.....	4	18
79 years	7	15	2	1	25
80 years	11	7	3	14	35
81 years	3	3	3	3	12
82 years	1	5	1	3	10
83 years	2	3	3	3	11
84 years	2	3	.....	1	6
85 years	4	6	2	4	16
86 years	3	3	.....	.....	6
87 years	2	2	.....	1	5
88 years	1	2	1	2	6
89 years	.....	3	.....	.....	3
90 years	.....	1	.....	2	3
91 years	1	1	.....	.....	2
92 years	1	1	.....	1	3
93 years	.....	1	.....	.....	1
94 years	2	1	.....	.....	3
95 years	2	.....	2	2	6
96 years	.....	2	.....	.....	2
97 years	2	.....	.....	.....	2
98 years	.....	.....	1	1	2
99 years	.....	.....	.....	.....	.....
100 years and over	.....	1	.....	11	12
Total	112	126	44	90	372

TABLE VII.—DEATHS.—*Average ages in years of decedents dying from seventeen different diseases, and from suicide, during the year ending June* 30, 1880.

	White.		Colored.	
	Males.	Females.	Males.	Females.
Phthisis pulmonalis	40	36	28	26
Typhoid fever	27	39	31	27
Apoplexy	58	60	55	59
Insanity	46	43	48	53
Softening of the brain	51	66	63	62
Paralysis	61	64	59½	40
Cancer	57	50	47	55
Epilepsy	45	.....	5	42
Disease of heart	51	55½	48	45
Bright's disease	53½	42	32½	57
Rheumatism	47	42	61	26
Aneurisms	49	.....	44	58
Angina pectoris	58	52	51½	68
Gastritis	55½	28	34	37
Cirrhosis of liver	49	46	.....	.....
Dropsies	39	53½	45½	38
Diabetes	52	28	.....	.....
Suicides	42½	31	17½	.....

TABLE VIII.—DEATHS.—*Number of deaths occurring in the hospitals and similar institutions during the year ending June* 30, 1880.

Hospitals.	White.		Colored.		Total.
	Males.	Females.	Males.	Females.	
Freedmen's Hospital	10	7	61	62	140
Providence Hospital	40	19	6	3	68
Government Insane Asylum	42	9	5	4	60
Washington Asylum Hospital	11	9	21	15	56
St. Ann's Infant Asylum	10	24	8	7	49
Barnes Hospital (Soldiers' Home)	28	1	.....	.....	29
Children's Hospital	3	2	12	9	26
Home for the Aged	15	9	.....	.....	24
Small-pox Hospital	.....	1	3	6	10
Naval Hospital	8	.....	1	.....	9
United States jail	.....	.....	1	2	3
Louise Home	.....	2	.....	.....	2
Columbia Hospital	.....	1	.....	.....	1
Protestant Orphan Asylum	.....	1	.....	.....	1
United States Arsenal	1	.....	.....	.....	1
Reform School	.....	1	.....	.....	1
Total	168	86	118	108	480

TABLE IX.—*Cemeteries, and number of decedents buried in each, year ending June* 30, 1880.

Cemeteries.	White.	Colored.	Total.	Still-births.		
				White.	Colored.	Total.
Oak Hill	186	.....	186	6	.....	6
Congressional	394	1	395	18	.....	18
Mount Olivet	477	177	654	27	8	35
Glenwood	245	.....	245	4	.....	4
Prospect Hill	122	.....	122	8	.....	8
Holyrood	72	24	96	5	3	8
Rock Creek	55	.....	55	2	1	3
St. Mary's	35	.....	35	5	.....	5
Graceland	53	88	141	9	3	12
Methodist	26	.....	26	3	.....	3
Presbyterian	39	.....	39	1	.....	1
Mount Pleasant or Young Men's	4	448	452	.....	36	36
Beckett's	.....	295	295	.....	33	33
Harmony	1	315	316	.....	9	9
Baptist	.....	16	16	.....	1	1
Mount Zion	.....	146	146	.....	9	9
Hebrew	14	.....	14	1	.....	1
Jones's Chapel	.....	4	4	.....	2	2
Good Hope	.....	7	7	.....	.....	.....
Macedonian	.....	8	8	.....	.....	.....
Payne's	1	116	117	.....	10	10
Brightwood	1	7	8	.....	1	1
Moore's	.....	43	43	.....	4	4
Hillsdale	.....	14	14	.....	.....	.....
German	2	.....	2	.....	.....	.....
Skaggs's	.....	2	2	.....	.....	.....
Lutheran (Georgetown)	1	.....	1	.....	.....	.....
Tennallytown	10	1	11	.....	.....	.....
Soldiers' Home Grounds	31	.....	31	.....	.....	.....
Insane Hospital Grounds	37	5	42	.....	.....	.....
Private grounds	12	18	30	.....	4	4
Potter's Field	47	335	382	24	110	134
Outside the District	220	51	271	6	2	8
Total	2,085	2,121	4,206	119	236	355

NOTE.—One female, color unknown, buried in Potter's Field. Three children, still-born, color unknown, were buried in Potter's Field.

TABLE X.—*Occupations of fathers of children born, of grooms, and of decedents, for the year ending June* 30, 1880.

Occupations.	Fathers.		Grooms.		Decedents.			
					White.		Colored.	
	White.	Colored.	White.	Colored.	Male.	Female.	Male.	Female.
Auctioneer	1							
Actor	1							
Artists	2				1			1
Attorneys and agents	52	1			18		1	
Astronomer	1							
Auditors of the Treasury	1				2			
Architects	3		1					
Agent for telephone					1			
Bailiff					1			
Barbers	18	33	4	4	9		9	
Bankers	3		3		2			
Bar-tenders	9		1		2		1	
Bakers	38	2	9	1	6			6
Bookbinders	14				7			7
Boatmen	7	1	5	2	4		4	
Boot-blacks							2	
Boiler-makers	3				1			
Butchers	43	1	8		3		3	
Brakemen	2				2		1	
Brass-finishers	2		2		2		2	
Brick-molders	13	5		1	4		4	
Brewers	7		1		1			
Blacksmiths	55	7	9	1	10		11	
Bookkeepers	7		3		3		3	
Brick-masons	32	2	10		4		2	
Bleacher	1							
Basket-maker	1							
Bottling	2							
Builders	4							
Bill-posters	2							
Carpenters	124	12	18	2	22		7	
Car-drivers	8		2		1			
Caulker	1						1	
Cashier					1			
Can-maker					1			
Cooks and waiters	2	20	1	6	1		8	32
Conductors	11		2		2			
Confectioners	7		1		3			
Collectors	1				1			
Coachmen and hackmen	13	21	1	9	1			
Coal-dealers	11	5	2		1			
Coopers	7			1	1			
Cabinet-makers	6		3		2			
Clerks	324	4	84	1	78	10	2	
Captains of steamers	1		1		2			
Carriage-painters	5		3					
Constructor					1			
Chemist	1		1					
Cigar-makers	7	1	4					
Civil engineers	2		2					
Contractors	14		6					
Coach-makers	11							
Cutter	1							
Correspondent	1							
Dairymen	6	6			1			1
Dentists	1		3		1		1	
Druggists	17		2		4			
Dress-makers						2		1
Drivers	28	27	3	2	6		13	
Draughtsmen	5				3			
Dealer in horses	1							
Doorkeeper House of Representatives					1			
Dyer	1							
Detective	1							
Distiller	1							
Engineers	22		4		4			
Engravers	1				3			
Expressmen	6		1					
Electrician	1							
Examiners of Patents	2							
Florists	5		2		1			
Fishmonger		1						

TABLE X.—*Occupations of fathers of children born, &c.*—Continued.

Occupations.	Fathers.		Grooms.		Decedents.			
					White.		Colored.	
	White.	Colored.	White.	Colored.	Male.	Female.	Male.	Female.
Farmers	24	10	57	13	16	.....	1	.....
Fishermen	4	1	4	.....	3	.....	.....	.....
Firemen United States Navy	13	7	4	.....	.....	.....	1	.....
Feed-dealers	4	.....	1	.....	.....	.....	1	.....
File-cutter	.....	.....	1	.....	.....	.....	.....	.....
Furniture-dealers	2	1	.....	.....	.....	.....	.....	.....
Fruit-dealers	2	.....	.....	.....	.....	.....	.....	.....
Grocers	65	.....	.....	.....	8	.....	.....	.....
Gravel-roofer	.....	.....	.....	.....	.....	.....	1	.....
Gardeners	15	4	8	.....	8	.....	2	.....
Glazier and grainers	1	.....	.....	.....	.....	.....	1	.....
Gas-fitters	3	.....	.....	.....	.....	.....	.....	.....
Gunsmith	1	.....	.....	.....	.....	.....	.....	.....
Hoop-maker	.....	.....	1	.....	.....	.....	.....	.....
Hair-worker	.....	.....	1	.....	.....	1	.....	.....
Housekeepers	.....	.....	.....	.....	.....	11	.....	9
Hostlers	.....	5	.....	1	1	.....	2	.....
Harness-makers	3	.....	1	.....	.....	.....	.....	.....
Hatters	2	.....	1	.....	.....	.....	.....	.....
Hucksters	17	8	.....	.....	.....	.....	1	.....
Inspectors of streets	3	.....	.....	.....	1	.....	.....	.....
Ice-dealers	2	.....	.....	.....	.....	.....	.....	.....
Instrument-maker	1	.....	.....	.....	.....	.....	.....	.....
Journalists	1	.....	4	.....	4	.....	.....	.....
Junk-dealer	2	2	.....	1	1	.....	.....	.....
Jewellers	6	.....	1	.....	.....	.....	.....	.....
Janitor	1	.....	.....	1	.....	.....	.....	.....
Justice of the Peace	1	.....	.....	.....	.....	.....	.....	.....
Laundresses	.....	.....	.....	.....	.....	1	.....	10
Laborers	264	895	68	49	49	.....	192	.....
Locksmiths	.....	.....	.....	.....	2	.....	.....	.....
Liquor-dealers	3	.....	1	.....	.....	.....	.....	.....
Lumber-dealers	3	.....	1	.....	.....	.....	.....	.....
Letter-carriers	5	1	.....	.....	.....	.....	.....	.....
Lamplighter	.....	1	.....	.....	.....	.....	.....	.....
Librarian	1	.....	.....	.....	.....	.....	.....	.....
Livery-stable keeper	1	.....	.....	.....	.....	.....	.....	.....
Merchants	75	1	37	.....	25	.....	.....	.....
Millwright	.....	.....	.....	.....	1	.....	.....	.....
Messengers	25	42	.....	3	3	.....	5	1
Midwives	.....	.....	.....	.....	.....	2	.....	4
Molders	8	.....	3	.....	3	.....	.....	.....
Machinists	29	.....	11	.....	5	.....	.....	.....
Music teacher	.....	.....	1	.....	1	.....	.....	.....
Measurer of wood	.....	.....	.....	.....	1	.....	.....	.....
Mathematician	.....	.....	1	.....	.....	.....	.....	.....
Manufacturers and millers	5	.....	3	.....	.....	.....	.....	.....
Market dealers	.....	.....	3	.....	.....	.....	.....	.....
Musicians	13	.....	1	.....	4	.....	.....	.....
Matron	.....	.....	.....	.....	.....	.....	.....	1
Mechanics	37	.....	3	.....	.....	.....	.....	.....
Masons	10	.....	1	.....	.....	.....	.....	.....
Mattress-maker	.....	.....	1	.....	.....	.....	.....	.....
Marshal, Deputy, United States	1	.....	.....	.....	.....	.....	.....	.....
Member of Congress	.....	.....	.....	.....	1	.....	.....	.....
Newsboy	.....	.....	.....	.....	.....	.....	1	.....
Nurses	.....	.....	.....	1	1	1	.....	6
Officers, United States Navy	6	.....	6	.....	2	.....	.....	.....
Officers, United States Army	4	.....	2	.....	5	.....	.....	.....
Oyster dealers	5	2	.....	.....	.....	.....	1	.....
Oil-dealer	.....	1	.....	.....	.....	.....	.....	.....
Optician	1	.....	.....	.....	.....	.....	.....	.....
Plate printers	17	.....	2	.....	1	.....	.....	.....
Priests and preachers	8	8	3	3	1	.....	1	1
Plasterers	24	4	3	.....	3	.....	3	.....
Physicians	18	1	4	.....	10	.....	.....	.....
Painters	48	3	15	.....	7	.....	.....	.....
Policemen	32	1	.....	.....	3	.....	.....	.....
Pavers	5	.....	2	.....	3	.....	.....	.....
Plumbers	.....	.....	4	.....	3	.....	.....	.....
Photographers	.....	.....	1	.....	1	.....	.....	.....
Printers	71	1	17	1	12	.....	.....	.....
Pressmen	2	.....	1	.....	.....	.....	.....	.....

TABLE X.—*Occupations of fathers of children born, &c.*—Continued.

Occupations.	Fathers.		Grooms.		Decedents.			
					White.		Colored.	
	White.	Colored.	White.	Colored.	Male.	Female.	Male.	Female.
Porters	4	15	.....	10	1	.....	3	.....
Proof-reader	.....	.....	.....	.....	1	.....	.....	.....
Produce dealers	8	1	2	.....	1	.....	.....	.....
Piano-tuner	1	.....	.....	.....	.....	.....	.....	.....
Paper-hangers	10	1	.....	.....	.....	.....	1	.....
Pump-maker	1	.....	.....	.....	.....	.....	.....	.....
Postmaster	.....	.....	.....	.....	1	.....	.....	.....
Pop-corn dealer	.....	1	.....	.....	.....	.....	.....	.....
Photographer	1	.....	.....	.....	.....	.....	.....	.....
Potter	1	.....	.....	.....	.....	.....	.....	.....
Professor of natural history	1	.....	.....	.....	.....	.....	.....	.....
Restauranteurs	35	4	6	.....	2	2	1	.....
Religeouse	.....	.....	.....	.....	.....	5	.....	.....
Reporters	2	.....	.....	.....	2	.....	.....	.....
Rag dealer	1	.....	.....	.....	.....	.....	1	.....
Railroad employés	3	.....	.....	.....	1	.....	.....	.....
Rollers	2	.....	.....	.....	.....	.....	.....	.....
Stenographers	2	.....	1	.....	.....	.....	.....	.....
Student	1	.....	1	.....	.....	.....	.....	.....
Shipwright	.....	.....	.....	.....	1	.....	.....	.....
Sister of Charity	.....	.....	.....	.....	.....	1	.....	.....
Soldiers	14	.....	7	.....	61	.....	.....	.....
Sailors	12	4	6	.....	8	.....	.....	.....
Servants	4	111	.....	37	3	15	44	87
Steward	.....	.....	.....	.....	1	.....	.....	.....
Seamstresses	.....	.....	.....	.....	.....	4	.....	7
Stone cutters	14	.....	1	2	.....	5	.....	.....
Shoemakers	34	.....	1	2	9	.....	9	.....
Surveyor	.....	.....	.....	.....	1	.....	.....	.....
School teachers	5	2	.....	.....	1	1	.....	.....
Saddlers	2	.....	.....	.....	1	.....	.....	.....
Stereotypers	2	.....	.....	.....	.....	.....	.....	.....
Shopkeeper	.....	.....	.....	.....	1	.....	.....	.....
Stationers	2	.....	.....	.....	.....	.....	.....	.....
Secretary of Japanese Legation	.....	.....	.....	.....	1	.....	.....	.....
Sextons	.....	3	.....	.....	.....	.....	.....	.....
Sailmakers	1	.....	.....	.....	2	.....	.....	.....
Superintendent of railroad, &c	2	.....	.....	.....	.....	.....	.....	.....
Surgeon	.....	.....	.....	.....	1	.....	.....	.....
Sculptor	1	.....	.....	.....	.....	.....	.....	.....
Surgical-instrument maker	.....	.....	.....	.....	1	.....	.....	.....
Secretary of legation	1	.....	.....	.....	.....	.....	.....	.....
Ship-joiners	3	.....	.....	.....	.....	.....	.....	.....
Station-keepers	3	5	.....	.....	.....	.....	.....	.....
Slaters	2	.....	.....	.....	.....	.....	.....	.....
Tinners	14	.....	8	.....	4	.....	.....	.....
Tailors	20	.....	4	.....	8	.....	.....	.....
Teachers	5	2	1	2	1	2	.....	.....
Telegraph operators	4	.....	1	.....	.....	.....	.....	.....
Train master	1	.....	.....	.....	.....	.....	.....	.....
Tobacconists	3	.....	.....	.....	.....	.....	.....	.....
Ticket agent	1	.....	.....	.....	.....	.....	.....	.....
Treasurer of cemetery	1	.....	.....	.....	.....	.....	.....	.....
Undertakers	4	2	3	.....	.....	.....	1	.....
Upholsterers	2	1	2	.....	1	.....	1	.....
Veterinary surgeon	1	.....	.....	.....	.....	.....	.....	.....
Wood-sawyers	.....	1	.....	.....	.....	.....	2	.....
Washers and ironers	.....	.....	.....	.....	.....	.....	.....	10
Watchmen	18	5	4	1	7	.....	1	.....
Well-digger	.....	.....	.....	.....	.....	.....	1	.....
Whitewashers	.....	3	.....	.....	1	.....	1	.....
Watchmaker	1	.....	.....	.....	.....	.....	.....	.....
Wheelwrights	3	.....	.....	.....	1	.....	.....	.....
Wood-turner	2	.....	.....	.....	1	.....	.....	.....
Wire-presser	.....	.....	.....	.....	1	.....	.....	.....
Weigher	.....	.....	.....	1	.....	.....	.....	.....
Watermen	2	.....	.....	1	.....	.....	.....	.....
Wood-carriers	.....	2	.....	.....	.....	.....	.....	.....
Wire-worker	1	.....	.....	.....	.....	.....	.....	.....

TABLE XI.—STILL-BIRTHS.—*Legitimacy, period of utero-gestation, by whom attended or reported, and cause of still-birth, year ending June 30, 1880.*

	White.		Colored.		Total.
	Male.	Female.	Male.	Female.	
Legitimacy:					
Legitimate	63	42	99	60	264
Illegitimate	5	1	23	30	59
Unknown	5	3	15	9	32
Unknown color	.....	.....	.....	.....	3
Total	73	46	137	99	358
Period of utero-gestation:					
Fourth month	3	2	7	2	*16
Fifth month	2	3	7	8	20
Sixth month	12	5	13	7	37
Seventh month	6	6	26	13	†52
Eighth month	13	2	12	19	46
Ninth month	32	26	61	44	163
Unknown	5	2	11	6	24
How reported:					
Physician	49	29	59	36	173
Midwife	17	12	54	46	129
Coroner	7	5	24	17	‡56
Causes:					
Unknown and not stated	32	24	76	59	‡194
Disease of mother	5	3	10	3	21
Overwork and injury to mother	4	2	28	18	52
Difficult and prolonged labor	8	2	6	5	21
Placenta previa	4	.....	1	2	7
Malformation of pelvis	4	2	.....	1	7
Premature labor	9	4	5	5	23
Fright of mother	1	1	3	2	7
Miscarriage	1	.....	.....	.....	1
Breech presentation	1	1	.....	.....	2
Foot presentation	.....	4	.....	.....	4
Shoulder presentation	.....	1	1	.....	2
Malpresentation, undefined	1	.....	.....	.....	1
Prolapsis funis	1	1	1	.....	3
Cord around neck	2	.....	1	1	4
Premature separation of placenta	.....	1	.....	.....	1
Pressure on cord	.....	.....	2	.....	2
Disease of child	.....	.....	.....	2	2
Forceps delivery	.....	.....	1	.....	1
Neglect	.....	.....	2	1	3

*Two, color unknown, included. †One, color unknown, included. ‡Three, color unknown, included.

TABLE XII.—BIRTHS.—*Statement by months and quarters, year ending June* 30, 1880.

Months and quarters.	White.			Colored.			Total white and colored.	Twins.		Bastards.	
	Males.	Females.	Total.	Males.	Females.	Total.		White.	Colored.	White.	Colored.
July, 1879	110	99	209	72	61	133	342	2	4	8	15
August, 1879	99	97	196	59	64	123	319	1	1	4	19
September, 1879	115	98	213	68	83	151	364	1	2	9	28
Total first quarter	324	294	618	199	208	407	1,025	4	7	21	62
October, 1879	97	89	186	73	72	145	331	1	2	3	30
November, 1879	93	102	195	69	69	138	333	4	2	1	31
December, 1879	128	101	229	78	55	133	362	5	3	7	38
Total second quarter	318	292	610	220	196	416	1,026	10	7	11	99
January, 1880	115	115	230	90	77	167	397	3	3	3	20
February, 1880	87	89	176	86	80	166	342	.....	1	4	40
March, 1880	118	103	221	102	103	205	426	.....	4	4	36
Total third quarter	320	307	627	278	260	538	1,165	3	8	11	96
April, 1880	72	68	140	91	79	170	310	.....	2	2	39
May, 1880	92	71	163	74	60	134	297	.....	2	7	24
June, 1880	77	62	139	59	74	133	272	1	2	4	22
Total fourth quarter	241	201	442	224	213	437	879	1	6	13	85
Total for year	1,203	1,094	2,297	921	877	1,798	4,095	18	28	56	342

TABLE XIII.—BIRTHS.—*Nativities of parents of legitimate white children (reported), year ending June* 30, 1880.

Birthplaces of fathers.	Birthplaces of mothers.										Total.
	United States.	British America.	Ireland.	England, Scotland, and Wales.	Germany.	Poland.	France.	Switzerland.	Italy.	All other countries.	
United States	1,528	6	53	23	23	.....	2	.....	.....	1	1,636
British America	5	1	.....	1	.....	.....	.....	.....	.....	.....	7
Ireland	68	1	145	5	1	.....	.....	1	.....	.....	221
England, Scotland, and Wales	46	.....	14	14	1	.....	.....	.....	.....	1	76
Germany	87	.....	3	1	148	1	1	1	.....	.....	242
Poland	1	.....	.....	.....	.....	4	.....	.....	.....	1	6
France	3	1	.....	.....	.....	.....	1	.....	.....	.....	5
Switzerland	4	.....	.....	.....	.....	.....	.....	1	.....	.....	5
Italy	3	.....	1	.....	1	.....	.....	.....	3	.....	8
All other countries	9	.....	1	.....	.....	.....	.....	.....	1	6	17
Total	1,754	9	217	44	174	5	4	3	4	9	2,223

TABLE XIV.—BIRTHS.—*Number of births and twin-births (reported), year ending June* 30' 1880.

Color.	Number of births.			Sex of twins.				By whom reported.			
	Males.	Females.	Total.	Males.	Females.	Male and female.	Total.	Physician.	Midwife.	Unattended.	Total accouchements.
White	1,203	1,094	2,297	6	7	5	18	1,296	983	.....	2,279
Colored	921	877	1,798	4	8	16	28	345	1,424	1	1,770
Total	2,124	1,971	4,095	10	15	21	46	1,641	2,407	1	4,049

TABLE XV.—BIRTHS.—*Nationality of mothers, total number of children born to them, and average number for each, year ending June* 30, 1880.

Nationality of mothers.	Number of children.																			Total number of mothers.	Total number of children born.	Average number of children borne by each mother.
	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	20	21			
United States (white)	427	*326	*274	222	*164	†129	103	‡57	39	‡34	14	5	5	3	2	....	....	....	....	1,804	6,602	3.66
Ireland	32	18	†28	34	19	22	21	18	12	7	5	3	.....	1	....	....	....	....	....	220	1,089	4.95
England, Scotland, and Wales	7	6	4	7	3	1	3	3	3	4	.....	2	1	....	....	....	....	....	....	44	229	5.20
Germany	26	‡16	21	‡23	‡22	‡14	12	17	10	10	3	2	1	....	....	....	....	....	....	177	887	5.01
British America	.....	.....	4	2	.....	1	.....	.....	2	.....	.....	....	.....	....	....	....	....	....	....	9	46	5.11
All other countries	3	1	4	2	4	5	3	3	.....	.....	.....	....	.....	....	....	....	....	....	..	25	120	4.80
Total white mothers	495	367	335	290	212	172	142	98	66	55	22	12	7	4	2	....	....	....	...	2,279	8,973	3.94
Total colored mothers	428	§330	247	‖232	144	*113	‡82	‡58	‡38	‡35	*15	20	‡10	8	‡5	1	2	1	1	1,770	6,698	3.78
Grand total	923	697	582	522	356	285	224	156	104	90	37	32	17	12	7	1	2	1	1	4,049	15,671	3.87

*Two pairs of twins. †Three pairs of twins. ‡One pair of twins. ‖Five pairs of twins. §Eleven pairs of twins.

TABLE XVI.—BIRTHS.—*Nationality of mothers of illegitimate children (reported) year ending June* 30, 1880.

Nationality of mothers.	Number of children.											Total number of mothers.	Total number of children.
	1.	2.	3.	4.	5.	6.	7.	8.	9.	12.	20.		
United States (white)	43	4	2	....	....	1	....	....	....	....	....	50	50
Ireland	3	....	....	....	....	....	....	....	....	....	....	3	3
Germany	1	2	..	....	....	....	....	....	....	....	....	3	3
Colored	173	*82	29	*24	†8	†10	3	2	1	1	1	334	342
Total	220	88	31	24	8	11	3	2	1	1	1	390	398

* Three pairs of twins. † One pair of twins.

TABLE XVII.—BIRTHS.—*Number of births (reported) in different hospitals and similar institutions year ending June* 30, 1880.

Hospitals.	White.	Colored.	Total.
Columbia Hospital	50	54	104
Freedmen's Hospital	5	50	55
Saint Ann's Infant Asylum	10	.....	10
Washington Asylum Hospital	12	19	31
Government Insane Asylum	1	.....	1
United States Arsenal	1	.....	1
United States Marine Barracks	1	.....	1
United States Naval Hospital	1	.....	1
Total	81	123	204

TABLE XVIII.—MARRIAGES (REPORTED).—*Manner of signing the marriage certificates by contracting parties, year ending June* 30, 1880.

Manner of signing.	White.		Colored.		Total.
	Grooms.	Brides.	Grooms.	Brides.	
By writing	475	474	139	141	1,229
By mark or by another person	39	33	91	90	253
Not signed	191	196	102	103	592
Total	705	703	332	334	2,074

NOTE.—There were two mixed marriages (*i. e.*, one party white, the other colored) reported during the year. In both cases the grooms were white, the brides colored. It was the first marriage of the parties in both cases, and in both cases the parties sign the certificate in their own handwriting.

TABLE XIX.—MARRIAGES (RERORTED).—*Number of marriage of brides and grooms, year ending June* 30, 1880.

Number of marriage of grooms.	Number of marriage of brides.				Total.
	First marriage.	Second marriage.	Third marriage.	Not given.	
Whites:					
First marriage	490	20	.....	6	516
Second marriage	54	30	2	1	87
Third marriage	7	1	.....	.....	8
Fourth marriage	.....	1	.....	.....	1
Not given	9	.....	.....	82	91
Total	560	52	2	89	703
Colored:					
First marriage	229	13	.....	1	243
Second marriage	26	18	.....	1	45
Third marriage	4	2	1	.....	7
Fourth marriage	.....	2	.....	.....	2
Not given	1	1	.....	33	35
Total	260	36	1	35	332

TABLE XX.—MARRIAGES (REPORTED).—*Nationality of brides and grooms of the white race year ending June* 30, 1880.

Birthplaces of grooms.	Birthplaces of brides.							
	United States.	Ireland.	England, Scotland, and Wales.	Germany.	British America.	All other countries.	Not given.	Total.
United States	489	7	8	5	1	2	11	523
Ireland	13	9	.....	.....	.....	.....	2	24
England, Scotlard, and Wales	12	.....	4	.....	.....	1	1	18
Germany	25	1	.....	20	.....	1	.....	47
British America	5	.....	.....	.....	.....	.....	.....	5
All other countries	4	.....	.....	3	.....	1	.....	8
Not given	14	.....	.....	1	.....	63	.....	78
Total	562	17	12	29	1	68	14	703

TABLE XXI.—MARRIAGES (REPORTED).—*Ages of brides and grooms—whites—during the year ending June* 30, 1880.

Ages of grooms.	Ages of brides.									Total.
	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	Over 70 years.	Age not given.	
Under 20 years	2	3	.....	.....	.....	.....	.....	.....	.....	5
20 to 25 years	83	105	11	3	.....	.....	.....	.....	.....	202
25 to 30 years	33	114	36	10	.....	.....	.....	.....	1	194
30 to 40 years	12	64	34	25	.....	1	.....	.....	.....	136
40 to 50 years	2	11	5	22	5	.....	.....	.....	1	46
50 to 60 years	2	1	3	8	4	1	.....	.....	.....	19
60 to 70 years	1	.....	.....	.....	4	1	.....	.....	.....	6
Over 70 years	.....	1	.....	1	.....	1	.....	.....	.....	3
Age not given	.....	.....	.....	.....	.....	.....	.....	.....	92	92
Total	135	299	89	69	13	4	.....	.....	94	703

TABLE XXII.—MARRIAGES.—*Ages of brides and grooms—colored—reported during the year ending June* 30, 1880.

Ages of grooms.	Ages of brides.									Total.
	Under 20 years.	20 to 25 years.	25 to 30 years.	30 to 40 years.	40 to 50 years.	50 to 60 years.	60 to 70 years.	Over 70 years.	Age not given.	
Under 20 years	1	1	.....	.....	.....	.....	.....	.....	.....	2
20 to 25 years	46	63	3	1	.....	.....	.....	.....	.....	113
25 to 30 years	10	54	21	4	.....	.....	.....	.....	.....	89
30 to 40 years	8	20	25	8	.....	.....	.....	.....	1	62
4 0 to 50years	.....	6	3	9	3	.....	.....	.....	.....	21
50 to 60 years	1	.....	1	4	1	2	.....	.....	.....	9
60 to 70 years	.....	.....	.....	1	1	1	.....	.....	.....	3
Over 70 years	.....	.....	.....	.....	.....	1	.....	.....	.....	1
Age not given	.....	.....	.....	.....	.....	.....	.....	.....	32	32
Total	66	144	53	27	5	4	.....	.....	33	332

TABLE XXIII.—MARRIAGES.—*Number of marriages (reported) solemnized by clergymen of different denominations, year ending June* 30, 1880.

	Methodist.	Baptist.	Catholic.	Episcopalian.	Presbyterian.	Lutheran.	German evangelical.	Congregational.	German Reform.	Hebrew.	Unitarian.	Disciple.	Swedenborgian.	Unknown.	Total.
White	207	68	113	131	72	36	28	19	9	7	4	3	2	4	703
Colored	121	159	34	4	3	....	....	2	....	....	2	1	1	5	332
White and colored	....	2	....	....	....	....	....	....	....	....	....	....	....	....	2
Total	328	229	147	135	75	36	28	21	9	7	6	4	3	9	1,037

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads, classified by color, dif-*
18 *heads. All deaths by*

JULY, 1879.

Day of month.	Mortality.																			Meteorological conditions.				
																				Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between the 9 p. m. observation of the evening previous to 7 a. m. observation.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1	8	7	15	2	5	1	..	..	..	..	..	1	1	1	..	..	4	7	..	30.26	+ .17	.01	.02	.20	+ .16
2	11	8	19	....	7	2	1	..	..	..	1	2	1	..	..	..	2	11	..	30.22	+ .04	....	.12	.16	− .08
3	8	12	20	1	11	..	1	..	..	..	1	1	1	3	..	..	3	15	..	30.08	+ .01	....	.14	.15	− .15
4	10	14	24	....	9	1	1	..	..	..	..	1	1	8	..	..	..	18	1	29.96	+ .01	.01	.11	.13	− .09
5	6	8	14	....	8	..	..	..	..	..	..	2	..	1	..	..	1	10	..	30.14	+ .13	.12	....	.25	+ .25
6	7	6	13	....	4	1	..	..	..	..	..	2	..	..	..	1	..	8	..	30.21	+ .08	....	.08	.16	. 0
7	14	7	21	....	7	..	..	..	..	..	1	3	2	3	1	..	1	12	..	30.08	+ .09	.10	.11	.22	. 0
8	12	13	25	4	11	..	..	..	..	..	..	4	1	1	2	..	4	14	1	29.86	− .30	....	.06	.36	− .36
9	10	10	20	....	8	1	..	..	..	..	..	3	..	2	..	1	2	12	..	29.92	+ .09	.01	.01	.11	+ .09
10	6	7	13	....	8	..	1	..	..	..	..	1	..	1	..	..	..	11	1	29.85	− .02	....	.09	.11	− .11
11	4	5	9	....	6	..	..	..	..	..	..	..	..	..	..	1	3	6	..	29.69	− .01	....	.15	.16	− .16
12	6	11	17	3	5	..	1	..	..	..	..	4	1	1	..	..	2	8	..	29.77	− .01	.21	....	.22	+ .20
13	6	6	12	1	8	..	..	..	..	..	..	..	..	1	..	..	..	8	..	29.98	+ .11	.03	....	.14	+ .14
14	9	4	13	....	4	1	..	..	..	..	..	1	..	1	2	..	3	8	1	30.03	+ .07	.01	.05	.13	+ .03
15	10	12	22	....	4	1	..	..	..	..	1	4	1	3	..	..	4	13	1	29.98	+ .01	....	.07	.08	− .06
16	5	12	17	1	6	..	1	..	..	..	..	2	..	3	1	..	..	11	..	29.85	. 0	....	.17	.17	− .17
17	11	7	18	3	5	..	..	..	..	..	..	1	1	2	..	1	6	7	..	29.88	+ .06	.08	.02	.16	+ .12
18	8	7	15	....	5	..	..	..	..	..	..	..	1	4	..	1	2	9	..	30.02	+ .09	.04	.01	.14	+ .12
19	8	3	11	....	2	1	..	..	..	1	..	1	1	3	..	..	..	7	..	30.13	+ .09	.05	.02	.16	+ .12
20	5	7	12	....	6	..	..	..	1	..	1	..	..	2	..	..	1	10	..	30.24	+ .10	.03	.04	.17	+ .09
21	9	9	18	2	6	1	..	..	..	..	..	2	1	..	..	1	1	12	1	30.18	+ .04	....	.13	.17	− .09
22	6	7	13	....	6	1	..	..	..	..	..	1	1	..	..	..	..	10	1	29.97	− .05	....	.19	.24	− .24
23	7	5	12	1	3	1	1	..	..	..	1	1	..	1	..	..	1	8	..	29.80	− .07	.02	.07	.16	− .12
24	10	9	19	2	3	..	..	..	..	..	..	3	..	2	4	..	6	7	1	29.90	+ .07	.06	....	.13	+ .13
25	9	7	16	....	5	1	..	..	..	..	..	4	..	4	..	..	2	9	2	29.92	+ .06	....	.09	.15	− .03
26	5	6	11	1	6	..	..	..	..	..	..	2	..	1	..	..	..	8	2	29.82	. 0	....	.10	.10	− .10
27	5	3	8	1	4	2	..	..	..	..	..	1	..	..	..	..	2	4	..	29.91	+ .09	.06	....	.15	+ .15
28	6	7	13	....	5	..	1	..	..	..	..	..	3	2	1	..	1	9	1	29.97	+ .03	.03	.02	.08	+ .04
29	7	6	13	....	6	..	..	..	..	..	..	5	..	..	..	..	1	8	..	30.00	+ .02	.03	.02	.07	+ .03
30	7	3	10	....	5	..	1	..	1	..	..	1	1	..	..	..	..	8	..	30.07	+ .02	.06	....	.08	+ .08
31	9	8	17	1	3	1	1	..	..	..	..	4	..	6	1	..	4	6	2	30.17	+ .08	.03	.02	.13	+ .09
Totals and means.	244	236	480	25	181	16	10	..	2	1	6	57	18	56	12	6	56	294	15	30.00	+1.47 − .47	.99	1.91	4.84	+1.84 −1.76

ferent diseases, and ages, also daily meteorological conditions and variations divided under violence are excluded.

JULY, 1879.

Meteorological conditions.														
Thermometrical.														
Record of dry bulb.														
Daily mean.	Difference between 9 p. m. observation of the evening previous to 7 a. m. observation.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rain fall in inches.	Day of month.
74.0	— 5	14	7	26	+ 2	60.0	47.7	41.3	.33	N.	3	4	Clear.....	.....	1
79.5	— 3	18	10	31	+ 5	67.0	58.7	50.3	.50	S.	8	9	Clear.....	.....	2
83.0	— 6	20	10	36	+ 4	69.7	61.5	50.3	.41	S.	5	6⅓	Hazy.....	.....	3
84.7	— 6	19	13	38	0	71.7	63.8	50.3	.55	W.	7	10	Fair.....	.02	4
73.2	— 7	3	10	20	—14	66.3	61.0	62.7	.54	E.	6	9⅓	Fair.....	.....	5
73.2	— 4	17	9	30	+ 4	63.0	55.5	55.7	.44	S.	6	7⅓	Clear.....	.....	6
74.9	— 5.5	14.5	9	29	0	63.7	57.7	57.3	.485	S.	10	10⅓	Fair.....	.....	7
78.2	+ 2	9	7	18	+ 4	73.2	70.8	76.3	.755	S. W.	6	6	Fair.....	.08	8
77.7	0	9	12	21	— 3	67.7	60.2	54.7	.53	W.	8	10	Fair.....	.03	9
81.2	— 3	17	5	25	+ 9	69.7	63.0	57.0	.58	N. W.	6	6⅔	Fair.....	.02	10
78.5	— 6	18	24	48	—12	71.3	66.0	64.3	.64	N. W.	11	13⅓	Fair.....	.71	11
77.5	+ 4	6	4	14	+ 6	70.0	65.0	66.7	.62	N.	8	10	Clear.....	.01	12
76.0	— 5	10	7	22	— 2	66.7	60.2	57.3	.53	E.	3	3	Fair.....	.....	13
79.2	— 7	21	9	37	+ 5	67.3	66.2	55.7	.51	S.	5	5⅓	Clear.....	.....	14
86.7	— 4	21	10	35	+ 7	73.3	65.8	52.3	.65	W.	3	3	Fair.....	.....	15
88.7	— 6	17	10	33	+ 1	75.0	67.7	51.7	.68	S. W.	3	3⅓	Fair.....	.....	16
80.7	— 9	9	10	28	—10	67.3	57.3	45.0	.49	N. W.	7	7⅔	Clear.....	.....	17
73.2	— 11	13	7	31	— 5	61.7	52.5	50.0	.40	N.	7	7	Fair.....	.....	18
74.5	— 3	12	9	24	0	62.3	52.0	47.7	.40	N.	5	5⅔	Fair.....	.....	19
73.0	— 6	14	9	29	— 1	63.0	51.8	56.0	.43	S. E.	7	8	Cloudy...	.....	20
76.0	— 3	16	10	29	+ 3	64.0	54.8	49.7	.43	S.	7	7⅓	Clear.....	.....	21
81.2	— 4	21	11	36	+ 6	70.3	63.8	59.0	.60	S.	9	9⅔	Fair.....	.....	22
83.7	— 4	15	9	28	+ 2	71.7	64.5	53.7	.62	W.	4	5⅓	Fair.....	.02	23
81.2	— 8	11	4	23	— 1	72.0	67.3	64.0	.67	S. E.	⅓	3	Cloudy...	.02	24
76.2	— 8	5	3	16	— 6	73.0	71.3	85.0	.77	E.	5	6	Cloudy...	.21	25
75.0	— 1	6	9	16	— 4	74.0	73.3	91.0	.82	S.	8	8⅓	Cloudy...	2.08	26
78.5	+ 1	14	10	25	+ 5	72.3	68.7	73.7	.70	W.	3	6	Fair.....	.03	27
79.0	— 1	10	9	20	0	72.0	67.8	68.7	.68	N. W.	5	5⅓	Cloudy...	.....	28
79.0	— 3	10	5	18	+ 2	70.7	65.7	65.3	.64	S. W.	2	3	Cloudy...	.....	29
75.0	— 4	2	3	9	— 5	71.7	69.8	82.7	.73	S. W.	3	3⅓	Cloudy...	.13	30
77.0	— 2	12	8	22	+ 2	71.7	68.8	76.3	.70	S.	4	4	Cloudy...	*	31
78.4	+ 7 —134.5	403.5	272	817	+67 —63	68.8	62.6	60.4	.575	S.		6.67	.....	3.36	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads*,

AUGUST, 1879.

Day of month.	Mortality.																		Meteorological conditions.				
																			Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases and marasums, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 years old and under.	Daily mean.	Difference between the 9 p. m. observation of the evening previous to 7 a. m. observation.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movements of barometer for 24 hours.
1	3	9	12	....	3	..	..	..	..	..	2	1	..	4	2	..	2	7	1	30.17	+ .02	.02	.05	.09	— .01
2	5	6	11	....	3	..	..	..	..	..	..	4	..	..	..	..	2	5	..	30.11	0	....	.08	.08	— .08
3	3	6	9	....	4	..	2	..	..	..	..	..	..	1	..	..	1	6	..	30.01	— .01	....	.09	.10	— .10
4	6	14	20	....	7	1	1	1	..	..	..	3	2	1	..	..	1	13	1	29.93	— .02	.01	.06	.09	— .07
5	7	5	12	1	4	..	..	..	..	..	..	3	..	1	..	..	2	4	..	29.89	+ .02	....	.08	.10	— .06
6	7	1	8	1	2	..	..	..	..	..	..	1	1	..	..	..	2	5	1	29.89	+ .03	.02	.01	.06	— .04
7	5	7	12	1	7	..	..	..	..	..	..	..	1	..	1	..	2	9	..	29.80	— .03	....	.09	.12	— .12
8	5	7	12	1	4	..	..	..	..	..	..	1	..	..	..	2	1	8	1	29.84	+ .01	.10	....	.11	+ .11
9	3	3	6	....	1	..	..	..	..	..	..	3	1	..	..	..	..	3	..	30.01	+ .10	.04	....	.14	+ .14
10	5	7	12	1	3	..	..	..	..	..	..	1	1	1	..	..	..	8	1	30.07	+ .04	.03	.02	.09	+ .05
11	4	5	9	....	....	..	2	..	..	..	1	1	1	2	..	1	1	2	1	30.14	+ .05	.03	.01	.09	+ .07
12	9	12	21	2	7	..	1	..	..	..	..	2	..	3	..	..	2	12	1	30.17	+ .04	....	.03	.07	+ .01
13	4	4	8	....	....	..	..	..	..	..	..	4	2	..	..	..	..	5	1	30.04	— .01	....	.16	.17	— .17
14	6	9	15	2	6	..	..	..	..	..	..	5	1	..	..	..	1	9	..	29.90	— .07	.06	.07	.20	— .08
15	5	2	7	1	1	..	..	..	..	..	..	..	2	1	*1	..	1	4	1	29.97	+ .04	.05	.01	.10	+ .08
16	7	9	16	....	3	..	..	1	..	..	..	1	..	5	..	..	5	8	..	29.87	— .07	.03	.09	.19	— .13
17	8	9	17	....	5	2	..	1	..	..	..	1	2	..	1	..	3	8	..	29.92	+ .01	.07	....	.08	+ .08
18	11	7	18	....	3	..	1	..	..	1	1	5	..	2	1	1	2	12	..	29.89	+ .02	.16	.21	.39	— .03
19	9	8	17	....	7	..	1	..	..	..	1	1	..	1	..	1	..	13	2	30.10	+ .17	.03	.01	.21	+ .19
20	13	5	18	....	4	2	2	2	..	..	..	1	2	1	..	2	..	9	..	30.14	+ .06	....	.04	.10	+ .02
21	5	3	8	....	3	..	1	..	..	..	..	1	..	2	..	..	1	5	1	30.07	+ .02	....	.12	.14	— .10
22	6	3	9	....	2	..	1	..	..	..	..	2	1	..	..	..	1	3	..	29.88	— .06	....	.12	.18	— .18
23	5	6	11	....	2	2	..	..	..	..	..	2	..	..	1	..	..	5	..	29.82	— .01	.02	.04	.07	— .03
24	3	5	8	1	....	..	1	..	..	..	..	1	1	1	..	..	3	4	..	29.78	0	....	.05	.05	— .05
25	6	3	9	....	1	..	1	..	..	..	..	1	1	2	..	..	..	6	3	29.70	— .06	.10	.08	.24	— .04
26	3	3	6	....	1	..	..	..	..	..	..	1	..	1	*1	..	1	3	..	29.90	+ .09	.13	....	.22	+ .22
27	5	2	7	2	1	1	..	..	..	..	..	..	..	1	..	..	3	1	..	30.03	+ .08	.04	.03	.15	+ .09
28	5	2	7	....	....	1	1	..	..	..	1	..	..	1	..	1	1	1	..	30.11	+ .08	.01	.02	.11	+ .07
29	4	3	7	....	1	..	..	..	..	..	..	1	2	2	..	..	1	4	..	30.10	+ .06	....	.10	.16	— .04
30	1	6	7	1	1	..	..	..	..	..	1	1	1	4	..	1	..	1	..	30.02	— .03	.02	.04	.09	— .05
31	7	3	10	....	4	..	1	..	..	..	..	2	1	..	..	..	..	6	..	30.02	+ .02	....	.08	.05	— .01
Totals and means.	175	174	349	14	90	9	16	5	..	1	7	50	23	37	8	9	39	189	15	29.98	+ .96 — .37	.97	1.74	4.04	+ 1.17 — 1.35

classified by color, different diseases, and ages, &c.—Continued.

AUGUST, 1879.

Meteorological conditions.														
Thermometrical.														
Record of dry bulb.														
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
79.2	— 4	13	8	25	+ 1	73.0	69.8	74.3	.73	S. W.	3	3⅜	Fair	.....	1
81.7	— 4	15	9	28	+ 2	72.7	68.0	63.0	.72	W.	3	3⅓	Fair	.....	2
84.0	— 5	18	11	34	+ 2	74.0	68.5	61.7	.70	S. W.	4	4	Fair	.....	3
80.5	— 4	12	15	31	— 7	75.0	70.8	73.3	.75	S. W.	2	2⅜	Cloudy ..	.32	4
83.2	— 1	15	9	25	+ 5	75.7	72.7	71.3	.80	W.	3	3	Fair	.....	5
78.7	— 4	15	12	31	— 1	73.0	69.7	72.3	.72	W.	5	6⅓	Cloudy ..	.26	6
78.2	— 3	15	12	30	0	72.7	69.3	74.7	.72	N.	2	4⅜	Cloudy ..	.11	7
75.5	— 3	12	13	28	— 4	68.7	63.3	65.7	.60	N. W.	8	8	Fair	.....	8
65.2	— 8	5	5	18	— 8	57.7	50.8	59.7	.37	N.	8	8⅓	Cloudy ..	.....	9
65.5	— 5	14	8	27	+ 1	57.0	49.0	57.3	.35	N. W.	6	7	Clear	.....	10
70.5	— 4.5	20	9	33.5	+ 6.5	60.7	53.0	61.7	.41	S.	4	4	Clear	.....	11
72.4	— 5	15.5	10.5	31	0	64.3	58.3	63.7	.49	S.	5	5	Fair	.....	12
74.2	— 4	15	8	27	+ 3	67.0	62.2	67.7	.56	S,	7	7⅓	Fair	.....	13
76.0	— 6	18	11	35	+ 1	68.7	64.2	67.7	.60	S. W.	4	6	Fair	.02	14
74.5	— 4	14	15	33	— 5	69.0	65.3	72.0	.63	N. E.	2	6	Cloudy ..	.32	15
75.0	+ 3	12	14	29	+ 1	72.0	70.0	81.3	.73	S.	2	5⅔	Cloudy ..	1.12	16
71.5	0	2	2	4	0	70.7	70.2	93.3	.74	N. E.	1	5	Cloudy ..	2.39	17
64.2	— 7	1	1	9	— 7	62.0	60.2	87.0	.53	N.	9	10	Cloudy ..	.68	18
71.0	— 1	16	8	25	+ 7	63.3	57.8	64.7	.49	N. W.	4	4	Clear	.....	19
74.0	— 5	18	11	34	+ 2	66.3	61.2	66.7	.54	S. W.	4	5	Clear	....	20
77.0	— 1	12	8	21	+ 3	71.0	67.7	73.0	.68	S.	10	10⅓	Fair	.....	21
76.7	— 2	13	14	29	— 3	72.7	69.8	77.7	.73	S.	7	7⅓	Clear	.01	22
77.5	0	10	6	16	+ 4	72.0	69.0	75.7	.71	W.	2	5⅓	Cloudy ..	.03	23
74.7	— 6	7	3	16	— 2	71.0	69.0	83.0	.71	S. W.	3	4	Cloudy ..	.44	24
70.2	+ 1	.....	11	12	—10.	70.0	68.7	90.3	.71	N. W.	6	10⅔	Cloudy ..	1.57	25
64.5	— 4	5	.....	9	+ 1	61.0	58.7	83.7	.50	N.	10	10⅓	Cloudy ..	.09	26
68.2	— 4	13	7	24	+ 2	62.3	57.8	71.3	.48	N. E.	4	4⅔	Fair	.....	27
69.2	— 4	11	6	21	+ 1	63.0	58.3	70.0	.49	N.	4	4	Fair	.....	28
75.2	— 4	19	8	31	+ 7	67.0	62.0	66.7	.56	W.	4	4⅓	Clear	.....	29
78.5	— 1	10	8	19	+ 1	72.0	68.2	70.3	.69	N. W.	6	6⅓	Hazy	.....	30
74.7	— 7	13	10	30	— 4	67.7	62.7	68.0	.57	N.	1	3⅓	Clear	.....	31
74.2	+ 4 —110.5	378.5	272.5	765.5	+50.5 —51	68.2	64.1	71.9	.613	S.		5.8	.....	7.37	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

SEPTEMBER, 1879.

Day of month.	Mortality.																			Meteorological conditions.					
																				Barometrical.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total fall of barometer for 24 hours.	Total rise and fall of barometer for 24 hours.	Result of total movement for 24 hours.
1	3	4	7	....	3	1	1	1	..	..	..	..	..	1	..	..	..	5	..	29.99	0	.03	.05	.08	—.02
2	6	4	10	....	....	..	..	..	..	..	..	5	2	..	..	..	2	4	..	30.00	+.02	....	.03	.05	—.01
3	11	5	16	1	1	1	..	..	..	..	1	5	2	..	1	..	4	4	..	29.77	—.12	....	.13	.25	—.25
4	6	3	9	....	1	..	..	..	..	1	..	2	..	2	..	..	2	2	..	29.91	+.08	.18	....	.26	+.26
5	5	2	7	1	1	2	..	..	..	..	..	1	..	..	..	..	1	1	..	30.06	+.07	.03	.02	.12	+.08
6	4	2	6	....	3	..	..	..	..	..	..	1	..	1	..	..	..	4	..	30.07	+.02	.01	.03	.06	0
7	5	5	10	1	....	..	..	1	..	..	..	3	1	2	1	..	..	3	..	30.01	+.03	....	.14	.17	—.11
8	6	8	14	1	3	..	..	..	..	..	..	4	1	2	..	..	1	8	..	29.99	—.02	.11	.01	.14	+.08
9	2	5	7	....	2	..	..	..	..	..	..	2	1	..	..	..	..	5	1	30.15	+.07	.08	....	.15	+.15
10	4	7	11	....	4	..	..	..	..	..	1	2	..	1	1	1	2	6	..	30.32	+.11	.04	....	.15	+.15
11	6	7	13	....	4	..	..	..	..	..	..	1	1	1	1	..	1	7	..	30.34	+.04	....	.07	.11	—.03
12	6	5	11	....	2	..	..	..	..	..	..	3	..	3	1	..	2	3	1	30.19	—.04	....	.13	.17	—.17
13	10	5	15	1	4	..	2	..	..	..	..	2	..	2	*1	..	..	8	1	29.99	—.08	....	.09	.17	—.17
14	4	3	7	....	....	..	1	..	..	..	1	1	..	3	1	..	..	4	1	30.04	+.01	.13	....	.14	+.14
15	6	6	12	1	....	..	..	..	..	..	..	3	..	5	..	..	2	6	2	30.14	+.11	....	.12	.23	—.01
16	6	6	12	2	3	..	..	..	..	..	..	..	2	1	1	..	2	6	3	29.93	—.10	.01	.10	.21	—.19
17	3	2	5	1	1	..	..	..	..	..	..	..	1	..	1	..	..	3	..	30.07	+.03	.22	....	.25	+.25
18	3	4	7	....	1	..	..	..	..	..	..	2	1	1	..	..	..	4	..	30.16	+.09	....	.12	.21	—.03
19	3	7	10	....	2	1	2	..	..	..	..	2	..	2	..	..	1	5	2	30.24	+.08	.07	.01	.16	+.14
20	8	8	16	1	3	1	..	..	..	1	1	2	..	3	..	..	3	6	1	30.29	0	.04	....	.04	+.04
21	6	2	8	....	1	..	..	..	..	..	..	2	1	..	..	1	3	3	1	30.32	+.24	....	.25	.49	—.01
22	4	13	17	....	3	..	..	..	..	1	..	..	3	4	..	..	3	12	3	30.20	—.06	....	.05	.11	—.11
23	7	6	13	1	3	..	1	..	..	..	..	3	2	1	..	..	2	5	..	30.13	0	.01	.08	.09	—.07
24	2	11	13	....	3	1	..	..	..	..	..	5	..	3	1	..	1	5	1	30.08	—.12	.18	.01	.31	+.05
25	6	3	9	....	2	..	1	..	..	..	..	..	1	1	1	..	4	3	1	30.32	+.14	.05	.03	.22	+.16
26	3	9	12	....	4	1	..	..	..	1	..	1	2	..	..	..	2	7	..	30.40	+.09	.05	.06	.20	+.08
27	4	4	8	....	1	..	..	..	..	..	..	..	3	2	..	..	2	2	..	30.39	+.04	....	.08	.12	—.04
28	4	9	13	2	2	1	..	..	..	1	1	1	1	1	2	..	1	6	1	30 33	+.01	....	.07	.08	—.06
29	2	4	6	....	....	1	..	..	..	..	..	1	1	3	..	..	..	4	1	30.33	+.04	.03	.04	.11	+.03
30	8	6	14	1	2	1	1	..	..	..	..	2	..	1	..	1	4	4	..	30.33	+.04	.01	.07	.12	—.02
Totals and means.	153	165	318	14	59	11	9	2	..	5	5	54	26	46	13	3	46	145	20	30.15	+1.36 —.54	1.28	1.79	4.97	+1.61 —1.30

classified by color, different diseases, and ages, &c.—Continued.

SEPTEMBER, 1879.

Meteorological conditions.															
Thermometrical.															
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
76.7	— 5	19	11	35	+ 3	68.7	63.3	67.3	.59	S.	5	5⅔	Fair	.....	1
73.5	— 3	6	8	17	— 5	70.0	67.7	80.3	.68	S.	4	5	Cloudy ..	(*)	2
78.7	— 2	13	8	23	+ 7	73.7	71.0	77.7	.76	S.	6	7	Fair	.11	3
72.7	— 7	9	10	26	— 8	66.0	61.0	66.3	.54	N. W.	7	8⅓	Fair	.....	4
72.7	— 5	17	10	32	+ 2	66.0	61.5	70.0	.55	N. W.	2	2	Clear	.....	5
74.7	— 4	15	9	28	+ 2	68.3	64.3	71.0	.61	N.	1	3⅓	Clear	.....	6
74.0	— 6	16	12	34	— 2	67.7	63.2	71.3	.58	SE.	2	5	Fair	.03	7
68.5	— 2	8	15	25	— 9	61.0	52.8	57.7	.41	W.	5	8	Clear	.56	8
60.5	— 6	12	11	29	— 5	53.3	45.3	57.3	.30	N. W.	10	10⅓	Clear	.....	9
59.5	— 4	14	10	28	0	53.7	47.8	66.0	.33	N. W.	4	4⅓	Clear	.....	10
60.0	— 3	16	14	33	— 1	53.7	46.5	62.0	.32	N. E.	2	2⅔	Clear	.....	11
63.2	— 6	23	10	39	+ 7	55.3	48.8	61.3	.35	S.	4	4	Clear	.....	12
67.2	— 1	9	5	15	+ 3	62.3	58.7	74.3	.50	S.	9	9⅓	Cloudy ..	.20	13
61.5	— 6	6	8	20	— 8	57.7	53.8	74.3	.42	W.	4	7⅓	Fair	.38	14
61.5	— 5	18	12	35	+ 1	56.0	51.2	69.3	.38	S.	2	2⅔	Clear	.....	15
66.0	— 6	22	9	37	+ 7	60.7	57.2	75.7	.48	S. W.	4	4	Fair	.....	16
65.0	— 4	12	14	30	— 6	57.7	50.2	58.3	.36	N. W.	7	7⅔	Clear	.....	17
66.5	— 5	20	9	34	+ 6	59.0	56.2	63.7	.41	S-	5	6⅓	Clear	.....	18
63.2	— 7	11	10	28	— 6	58.7	54.3	72.7	.42	N.	8	8	Fair	.....	19
58.7	— 2	1	2	5	— 3	56.3	54.8	84.0	.43	N.	5	5	Cloudy ..	.09	20
58.5	— 1	4	3	8	0	54.3	50.5	74.0	.37	N. E.	9	9	Cloudy ..	.10	21
60.7	— 2	7	1	10	+ 4	57.5	54.7	84.0	.43	N.	5	5⅓	Cloudy ..	.09	22
62.0	— 9	14	3	26	+ 2	58.8	56.8	86.3	.47	S.	4	4	Fair	.....	23
60.0	— 4	6	9	19	— 7	56.7	52.5	75.3	.41	N. W.	7	10⅓	Cloudy ..	(*)	24
51.0	— 10.5	11.5	8	30	— 7	45.7	38.2	62.3	.23	N. W.	6	6⅔	Clear	.....	25
50.2	— 9	21	13	43	— 1	45.0	37.0	65.3	.23	N. E.	2	3⅓	Clear	.....	26
56.7	— 6	25	10	41	+ 9	51.0	46.0	71.7	.31	S.	2	3	Clear	.....	27
60.0	— 7	20	12	39	+ 1	56.0	52.5	78.0	.40	S.	3	3⅓	Fair	.....	28
65.9	+ 1.5	12.5	8	22	+ 6	63.0	61.0	84.3	.54	S.	3	4⅓	Fair	.....	29
67.4	— 8.5	22.5	12	43	+ 2	62.7	59.7	78.3	.52	S.	2	2⅔	Clear	.....	30
64.6	+ 3.5 —144	410.5	276	834	+62 —68	59.2	54.6	71.3	.444	S.		5.7	.....	1.56	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

OCTOBER, 1879.

Day of month.	Mortality.																		Meteorological conditions.				
																			Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	1	3	4	....	2	..	..	1	..	..	..	..	..	..	..	..	..	4	1	30.27	0	.03	.09	.12	—.06
2	5	6	11	....	4	..	..	..	..	..	..	1	..	5	..	..	2	7	..	30.21	+.01	....	.09	.10	—.08
3	6	5	11	1	1	1	..	..	1	..	1	..	..	2	1	..	2	5	1	30.09	+.05	.08	.11	.24	—.08
4	8	4	12	....	....	1	2	..	..	..	..	2	2	2	1	..	4	2	1	30.19	+.12	.02	.05	.19	—.09
5	1	3	4	1	1	..	..	..	1	..	..	..	..	1	..	..	..	3	1	30.12	+.02	.02	.08	.12	—.08
6	4	3	7	....	1	..	..	..	..	2	..	1	..	2	1	..	1	2	..	30.23	+.07	.11	.01	.19	—.17
7	5	1	6	1	1	1	..	..	..	..	..	..	..	2	..	..	1	2	..	30.34	+.10	.02	.07	.19	—.05
8	5	6	11	....	1	..	1	..	..	1	..	1	1	2	..	..	1	3	1	30.22	0	....	.16	.16	—.16
9	2	3	5	....	1	..	1	..	..	..	..	2	2	..	..	..	..	2	..	30.09	—.03	.05	.10	.18	—.08
10	4	3	7	....	1	..	1	..	..	..	..	2	2	..	..	..	..	2	..	30.13	+.04	.09	.06	.19	—.07
11	3	5	8	....	....	1	..	..	..	1	..	1	2	1	1	..	1	4	2	30.28	+++.12	.03	.03	.18	—.12
12	3	3	6	....	1	..	2	..	..	..	..	1	..	..	1	..	1	1	..	30.23	+.02	....	.10	.12	—.08
13	4	4	8	1	1	..	1	..	..	..	..	..	1	1	1	..	1	3	1	30.17	0	.04	.07	.11	—.03
14	....	6	6	....	1	..	..	..	..	..	..	..	1	1	..	..	..	3	..	30.23	+.08	.02	.04	.14	—.06
15	3	3	6	....	....	..	..	..	..	..	..	2	1	1	..	..	2	2	..	30.15	—.01	.02	.10	.13	—.09
16	4	5	9	....	2	..	..	..	..	..	..	2	..	3	..	..	2	5	..	30.13	+.04	.02	.08	.14	—.02
17	3	3	6	1	....	..	..	..	..	..	..	..	..	2	..	..	2	2	1	30.11	+.03	.03	.07	.13	—.01
18	3	4	7	....	....	..	..	..	..	..	..	1	..	..	1	..	2	1	..	29.96	—.08	....	.10	.18	—.18
19	1	1	2	....	....	1	..	..	..	..	..	..	..	..	1	..	1	....	..	30.16	+.12	.19	....	.31	+.31
20	4	2	6	....	....	..	..	..	..	..	..	2	..	1	1	..	2	2	2	30.31	+.10	.02	.05	.17	+.07
21	5	3	8	....	....	..	..	..	1	..	..	3	1	1	..	1	..	2	..	30.24	—.02	....	.08	.10	—.10
22	6	6	12	....	1	..	1	..	..	..	..	2	1	3	..	1	5	4	..	30.13	—.03	....	.07	.10	—.10
23	9	8	17	....	4	1	2	..	..	..	1	3	1	3	..	1	2	6	..	30.05	—.09	.18	.08	.35	+.01
24	6	9	15	2	2	..	..	..	..	1	..	1	3	2	1	1	1	8	2	30.41	+.15	.26	....	.41	+.41
25	5	6	11	....	2	..	..	..	1	..	..	2	1	..	1	..	1	5	1	30.75	+.18	.09	....	.27	+.27
26	2	6	8	....	....	1	..	.	..	..	..	1	..	2	..	..	..	5	3	30.68	+.02	....	.21	.23	—.19
27	4	1	5	....	....	..	..	..	..	1	..	..	..	1	..	..	2	2	.	30.21	—.19	....	.31	.50	—.50
28	4	3	7	....	1	1	..	1	..	..	..	1	..	1	..	..	1	3	..	29.71	—.34	.17	.19	.70	—.36
29	3	4	7	....	....	..	..	..	..	..	..	3	1	1	..	1	1	3	..	29.75	+.11	....	.15	.26	—.04
30	4	5	9	....	1	..	..	..	..	..	..	4	1	1	..	..	2	3	..	29.93	+.06	.28	....	.34	+.34
31	8	2	10	....	....	..	..	..	1	..	..	..	2	1	2	1	1	2	1	30.26	+.12	.16	....	.28	+.28
Totals and means.	125	126	251	7	29	8	12	2	5	6	2	40	19	42	12	6	40	98	18	30.19	+1.49 —.86	1.93	2.55	6.83	+2.25 —2.44

classified by color, different diseases, and ages, &c.—Continued.

OCTOBER, 1879.

Meteorological conditions.														
Thermometrical.														
Record of dry bulb.														
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
68.6	— 12.5	31.5	19	63	0	61.7	56.3	69.7	.46	W.	1	1⅓	Clear	.....	1
72.0	— 9	28	14	51	+ 5	64.0	58.7	67.0	.50	S.	3	3	Clear	.....	2
76.7	— 5	23	15	43	+ 3	69.3	64.7	68.0	.61	W.	4	6⅔	Fair	.02	3
65.2	— 17	19	14	50	—12	57.0	48.3	59.0	.35	S. W.	2	3⅓	Fair	.....	4
70.0	— 4	22	11	37	+ 7	63.3	58.8	70.0	.50	S.	2	2	Clear	.....	5
71.0	— 7	23	18.5	48.5	— 2.5	64.7	59.8	68.7	.52	W.	6	6⅔	Clear	.....	6
67.5	— 3.5	10	8	21.5	— 1.5	64.0	61.2	80.3	.54	N. E.	5	5⅓	Fair	.....	7
74.2	+ 1	13	5	19	+ 9	68.7	65.7	76.0	.63	S.	6	6	Cloudy ..	(*)	8
76.5	— 6	16	9	31	+ 1	70.0	66.3	72.3	.65	W.	3	4	Fair	.18	9
74.2	— 6	13	11	30	— 4	69.3	66.2	75.0	.65	N. E.	4	4	Fair	.02	10
68.2	— 6	5	3	14	— 4	64.0	61.0	78.0	.54	E.	4	5	Cloudy ..	.....	11
67.6	— 5	10.5	6.5	22	— 1	62.7	59.0	74.3	.50	S.	2	2⅔	Fair	.....	12
71.0	— 9	24	10	43	+ 5	64.3	60.2	72.0	.53	S. W.	2	2⅔	Fair	.....	13
67.5	— 7	10	10	27	— 7	61.7	56.5	68.7	.46	S. E.	1	3⅓	Fair	.....	14
70.7	0	13	8	21	+ 5	67.7	65.7	84.0	.63	S.	3	3	Clear	.....	15
70.7	— 9	21	12	42	0	65.3	61.7	74.7	.56	S.	2	2⅓	Clear	.....	16
70.0	— 11	22	11	44	0	64.0	60.0	74.0	.52	S.	6⅔	6	Fair	.....	17
71.5	— 1	6	4	11	+ 1	68.3	66.5	84.0	.65	S.	5	9⅔	Cloudy ..	.01	18
55.0	— 14	6	13	33	—21	48.7	39.0	51.3	.25	N. W.	9	9⅔	Fair	.01	19
51.2	— 8	21	13	42	0	44.7	34.0	58.0	.20	S.	2	2⅔	Clear	.....	20
54.2	— 4	13	3	20	+ 6	51.3	48.8	84.7	.35	S. E.	1	2	Cloudy ..	.29	21
63.0	+ 3	6	1	10	+ 8	64.7	60.2	92.3	.53	S. W.	1	2⅔	Cloudy ..	.20	22
61.7	— 2	11	17	30	— 8	55.3	46.5	57.0	.34	N. W.	9	9⅔	Fair	.....	23
42.2	— 12	5	11	28	—18	36.7	23.0	45.7	.13	N. W.	16	16	Clear	.....	24
39.0	— 6	16	10	32	0	33.0	19.7	48.7	.14	N.	6	6⅔	Clear	.....	25
42.2	— 8	23	10	41	+ 5	37.0	28.0	64.0	.16	S.	3	4	Clear	.....	26
49.7	— 3	17	6	26	+ 8	45.7	41.3	76.3	.26	S. W.	3	3⅓	Cloudy ..	.....	27
53.2	— 1	13	13	27	— 1	47.0	38.0	56.7	.23	W.	6	7	Clear	.06	28
56.5	— 4	20	9	33	+ 7	48.0	37.3	52.3	.23	S.	6	7	Clear	.....	29
54.2	— 2	9	15	26	— 8	45.3	28.0	39.0	.16	N. W.	13	13⅓	Clear	.....	30
42.0	— 9	12	14	35	—11	36.3	22.0	47.3	.12	N. W.	10	11	Fair	.....	31
62.5	+ 4 —191	482	324	1,001	+70 —99	56.9	50.4	67.4	.416	S.		5.645	.....	0.79	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

NOVEMBER, 1879.

Day of month.	Mortality.																			Meteorological conditions.					
																				Barometrical.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	4	5	9	....	1	..	1	..	1	..	..	1	2	..	..	..	1	4	..	30.40	+.09	.01	.04	.14	+.06
2	7	5	12	....	2	1	..	1	2	..	..	2	..	1	1	..	2	6	..	30.12	−.06	....	.31	.37	−.37
3	8	2	10	....	1	..	1	..	..	1	..	3	1	2	..	..	2	3	..	30.14	+.04	.16	....	.20	+.20
4	7	4	11	....	1	..	..	..	..	1	..	3	1	1	1	..	3	3	..	30.39	++.13	.12	.03	.28	+.22
5	7	10	17	....	2	..	1	..	..	..	..	5	1	..	..	..	3	8	3	30.45	+.12	....	.18	.30	−.06
6	2	2	4	....	1	..	..	..	..	..	..	..	1	1	..	..	3	1	..	30.27	−.09	.05	.06	.20	−.10
7	2	4	6	....	1	..	..	..	..	..	..	2	..	1	..	..	..	4	1	30.36	+.08	.03	.02	.13	+.09
8	11	8	19	1	....	..	..	..	..	1	..	5	4	1	..	..	3	8	2	30.34	+.05	....	.11	.16	−.06
9	4	5	9	....	....	..	..	..	..	1	..	2	1	1	1	..	2	3	1	30.23	0	....	.11	.11	−.11
10	2	4	6	....	1	..	..	..	..	1	..	2	1	..	..	..	1	2	..	30.28	+.09	.02	.03	.14	+.08
11	7	4	11	....	1	..	..	..	..	..	..	3	2	2	..	1	1	3	..	30.14	−.02	....	.19	.21	−.21
12	3	4	7	....	....	..	..	..	..	..	..	2	..	1	1	..	2	1	1	29.90	−.07	....	.16	.23	−.23
13	3	4	7	1	1	..	..	..	..	..	..	1	..	..	..	..	2	1	..	30.07	+.19	.08	....	.27	+.27
14	1	4	5	....	....	..	2	..	..	..	..	..	1	1	..	..	..	3	1	29.95	+.01	....	.34	.35	−.33
15	7	2	9	1	....	..	..	..	..	1	..	1	2	1	1	..	4	1	..	29.14	−.09	.11	.14	.34	−.12
16	3	3	6	....	....	..	1	..	..	..	..	..	1	1	1	..	5	1	..	30.15	+.23	.26	....	.49	+.49
17	2	2	4	....	....	..	..	..	..	..	..	2	1	..	..	..	..	..	..	30.24	+.14	....	.23	.37	−.09
18	4	8	12	....	....	1	..	..	1	1	..	3	2	3	..	..	..	4	1	29.98	−.29	.23	.01	.53	−.07
19	7	4	11	....	....	..	..	1	..	1	..	3	1	2	..	..	4	4	..	29.97	+.09	....	.34	.43	−.25
20	5	3	8	....	....	..	..	..	..	..	..	2	3	..	1	1	1	2	..	29.87	−.26	.47	....	.73	+.21
21	4	2	6	....	....	..	..	..	..	..	..	2	2	..	..	..	1	2	..	30.32	+.20	....	.20	.40	0
22	5	4	9	....	....	1	..	..	..	..	..	1	2	2	..	..	..	5	1	30.26	+.37	....	.24	.61	+.13
23	4	5	9	....	....	..	..	..	..	..	..	1	1	4	*1	..	3	3	..	30.10	−.19	.33	.08	.60	+.06
24	5	9	14	....	1	..	1	..	..	..	1	3	1	2	..	1	..	8	2	30.40	+.22	....	.09	.31	+.13
25	3	2	5	....	....	..	..	..	..	1	.	2	1	..	..	..	..	4	1	30.19	−.18	.15	.10	.43	−.13
26	3	1	4	....	....	1	..	..	..	..	..	1	..	1	1	..	1	1	..	30.48	+.22	.04	....	.26	+.26
27	3	4	7	....	....	..	..	..	..	1	..	3	1	..	..	..	2	3	..	30.32	−.04	....	.19	.23	−.23
28	5	6	11	....	2	..	..	..	..	..	..	..	1	4	..	..	1	9	4	29.89	−.16	....	.33	.49	−.49
29	4	5	9	....	....	..	..	..	1	..	..	..	1	2	*1	1	3	2	..	30.15	+.11	.43	....	.54	+.54
30	8	3	11	....	....	..	..	1	..	1	.	1	5	1	..	..	2	5	1	30.58	+.22	.06	....	.28	+.28
Totals and means.	140	128	268	3	15	4	7	3	5	11	1	56	40	35	10	4	49	104	19	30.19	+2.60 −1.45	2.55	3.53	10.13	+3.12 −2.85

classified by color, different diseases, and ages, &c.—Continued.

NOVEMBER, 1879.

Meteorological conditions.														
Thermometrical.														
Record of dry bulb.														
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
38.7	— 6	15	9	30	0	33.0	20.3	50.3	.11	N. W.	5	6	Clear	.....	1
42.0	— 4	16	8	28	+ 4	37.7	31.0	65.3	.18	S.	2	3⅔	Cloudy ..	.....	2
35.0	— 9	8	8	25	— 9	31.3	21.3	60.7	.12	N. W.	18	18	Fair	.....	3
31.5	— 6	10	6	22	— 2	28.0	20.0	63.3	.11	N. W.	10	10	Clear	.....	4
35.2	— 9	19	2	30	+ 8	29.3	18.3	58.0	.10	S. E.	7	7⅔	Clear	(*)	5
41.1	+ 2.5	1.5	3	7	+ 1	38.2	32.3	71.7	.19	S. E.	2	4	Cloudy ..	.41	6
44.0	— 6	18	7	31	+ 5	40.3	36.0	75.3	.21	S.	2	2⅓	Clear	.....	7
54.7	— 5	21	2	28	+ 14	50.3	47.7	81.3	.34	S.	3	3⅓	Cloudy ..	.....	8
64.2	— 2	15	8	25	+ 5	59.3	55.7	74.0	.44	S.	10	10	Fair	(*)	9
63.7	— 7	19	15	41	— 3	58.3	53.5	71.0	.41	N. W.	4	5	Clear	.....	10
61.0	— 5	12	8	25	— 1	56.3	52.3	65.3	.40	E.	3	4⅓	Fair	.....	11
70.0	+ 2	14	5	21	+ 11	62.3	57.2	65.7	.47	S. W.	10	11	Clear ...	.....	12
67.5	— 8	14	12	34	— 6	59.0	54.8	55.7	.43	E.	1	3⅔	Clear	.....	13
65.2	— 12	19	4	35	+ 3	60.3	57.0	78.0	.48	S. E.	2	5	Fair	.....	14
67.5	— 4	12	11	27	— 3	61.2	56.0	69.0	.45	S. W.	11	13	Fair	.04	15
53.7	— 9	5	12	26	— 16	49.0	40.5	61.0	.27	N. W.	10	10	Clear	.....	16
47.5	— 13	20	7	40	0	41.3	32.7	61.3	.19	S. E.	3	4⅔	Fair	.08	17
45.2	— 1	3	10	14	— 8	43.0	37.7	71.7	.24	N. W.	12	14	Fair	.28	18
33.5	— 10	4	1	15	— 7	30.7	26.0	73.0	.14	N. W.	1	3⅓	Fair	.....	19
28.2	— 1	.....	9	10	— 10	26.5	19.3	64.7	.11	N. W.	19	20	Clear	(*)	20
24.2	— 3	7	4	14	0	21.0	12.0	57.3	.08	W.	15	15	Clear	(*)	21
28.5	— 7	18	4	29	+ 7	24.7	18.3	67.3	.10	S.	6	7⅓	Clear	.....	22
40.2	+ 5	17	17	39	+ 5	35.3	23.3	51.0	.13	W.	9	11⅓	Fair	.....	23
33.2	— 7	11	8	26	— 4	25.5	17.3	54.3	.10	S. W.	3	4	Clear	.....	24
45.5	+ 4	16	5	25	+ 15	39.3	30.0	58.0	.17	S.	7	7⅔	Clear	.....	25
39.0	— 9	12	12	33	— 9	23.7	21.3	47.3	.12	N. E.	3	4	Clear	.....	26
44.5	— 2	18	10	30	+ 6	39.7	35.7	67.3	.36	S.	6	6	Fair	.....	27
58.2	+ 8	13	3	24	+ 18	54.7	52.2	82.0	.40	S.	14	14	Cloudy ..	.25	28
40.7	— 12	.....	13	25	— 25	36.3	25.3	49.7	.14	N. W.	18	18	Fair	.04	29
30.2	— 6	7	8	21	— 7	26.7	17.0	57.3	.10	N. W.	6	6	Clear	.....	30
45.8	+ 21.5 —163	364.5	231	780	+102 —110	40.7	34.1	64.3	.236	S.		8.41	.....	1.10	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

DECEMBER, 1879.

Day of month.	Mortality.																		Meteorological conditions.					
																			Barometrical.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	5	6	11	1	....	1	..	1	..	..	..	3	1	..	1	..	1	3	..	30.39	— .06	....	.20	.26	— .26
2	5	5	10	....	1	1	..	..	..	..	..	3	..	1	..	..	2	2	..	30.21	— .05	.01	.11	.17	— .15
3	10	7	17	....	....	..	..	1	..	2	..	3	5	..	2	1	2	2	..	30.12	— .01	....	.08	.09	— .09
4	4	6	10	....	....	..	..	..	..	..	..	2	2	5	..	..	3	3	1	30.26	+ .08	.14	....	.22	+ .22
5	3	7	10	....	1	1	..	..	..	..	..	3	2	1	1	..	1	3	..	30.28	+ .05	....	.13	.18	+ .08
6	6	3	9	1	1	..	..	..	1	..	..	..	..	1	..	2	3	2	..	29.75	— .24	....	.36	.60	— .60
7	5	4	9	2	....	..	..	1	..	..	..	2	1	2	..	1	3	1	..	29.99	+ .23	.19	....	.42	+ .42
8	4	6	10	....	....	..	..	..	..	..	..	6	..	1	*2	..	2	1	1	30.15	+ .05	.13	.03	.21	+ .15
9	4	3	7	....	....	..	..	..	..	..	..	1	2	3	..	..	3	3	1	30.41	+ .19	.02	....	.21	+ .21
10	2	3	5	....	....	..	..	..	..	..	..	2	..	1	..	..	3	1	1	30.10	— .16	....	.24	.40	— .40
11	4	5	9	....	1	..	1	..	..	..	..	3	..	1	1	..	1	2	1	29.95	— .14	.12	....	.26	— .02
12	5	2	7	....	....	..	..	..	..	..	1	1	..	1	1	..	2	3	1	30.35	+ .19	.27	....	.46	+ .46
13	1	9	10	....	....	..	..	..	..	..	..	1	5	3	..	..	2	6	1	30.62	+ .17	....	.02	.19	+ .15
14	5	4	9	....	....	..	..	..	..	..	..	..	1	1	1	..	1	4	2	30.05	— .31	....	.39	.70	— .70
15	11	3	14	....	2	..	1	1	..	..	..	..	4	2	..	..	1	6	2	29.87	— .13	.20	.01	.34	+ .06
16	8	2	10	....	....	..	..	1	..	1	..	2	3	1	2	..	1	4	..	30.09	+ .24	....	.31	.55	— .07
17	5	7	12	....	....	..	..	..	..	..	..	2	2	4	..	..	2	5	1	30.12	+ .12	.20	....	.32	+ .32
18	8	5	13	....	1	..	..	..	..	..	1	2	1	2	2	1	1	7	2	30.41	+ .19	.01	.01	.21	+ .19
19	2	8	10	....	....	..	..	..	..	..	..	3	3	1	*2	..	1	3	..	30.26	— .15	.02	.01	.18	— .14
20	8	3	11	....	....	..	..	1	..	..	..	2	2	..	2	..	3	3	1	30.09	— .15	.09	.10	.34	— .16
21	4	4	8	....	....	..	..	..	..	..	..	3	2	3	..	..	3	1	..	30.42	+ .22	.13	....	.35	+ .35
22	1	7	8	....	....	..	..	..	..	..	..	3	3	..	..	..	1	3	1	30.09	— .30	.16	.20	.66	— .34
23	5	6	11	....	1	..	..	1	..	..	..	4	1	..	1	..	2	3	..	30.39	+ .26	.02	.02	.30	+ .26
24	3	3	6	....	....	..	..	..	..	..	..	3	..	..	..	2	1	2	1	30.11	— .21	.02	.09	.32	— .28
25	3	3	6	....	1	..	..	..	..	..	..	1	3	..	..	..	2	3	1	29.95	— .14	.11	.09	.34	— .13
26	4	1	5	....	....	..	..	1	..	1	..	..	..	1	2	..	1	2	..	30.32	+ .24	.18	....	.42	+ .42
27	2	6	8	....	....	..	..	..	1	..	..	1	2	2	..	..	..	7	..	30.37	+ .06	....	.13	.19	— .07
28	9	2	11	....	1	..	..	..	..	..	..	1	2	2	1	..	1	7	3	30.18	— .08	....	.11	.19	— .19
29	8	4	12	....	....	1	1	..	..	..	..	4	1	1	1	..	3	2	1	30.03	— .10	.03	.03	.16	— .10
30	6	7	13	....	....	..	..	..	..	1	..	3	2	3	1	..	3	5	..	30.28	.....	.46	....	.46	+ .46
31	4	6	10	....	....	..	..	..	..	..	..	..	3	2	..	..	3	6	1	30.25	+ .07	....	.33	.40	— .26
Totals and means.	154	147	301	4	10	4	3	8	2	5	2	64	53	44	23	7	58	108	24	30.18	+2.36 −2.23	2.51	3.00	10.10	+3.67 −4.03

classified by color, different diseases, and ages, &c.—Continued.

DECEMBER, 1879.

Meteorological conditions.															
Thermometrical.															
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
36.5	0	16	7	23	+9	31.3	21.3	55.7	.12	S.	9	9⅓	Clear	.....	1
44.5	−7	24	7	38	+10	37.3	26.0	55.3	.15	S.	5	5	Fair	.....	2
54.2	−5	21	7	33	+9	48.7	43.5	70.0	.25	S.	8	8	Fair	.....	3
58.0	−2	10	7	19	+1	53.0	47.8	69.3	.33	E.	4	5⅓	Cloudy ..	.01	4
47.5	−12	4	.....	16	−8	43.7	39.3	74.3	.25	N. E.	8	8	Cloudy ..	(*)	5
58.5	+1	14	4	19	+11	56.7	56.2	92.3	.46	S. E.	5	8⅓	Rainy	.75	6
52.5	−10	10	10	30	−10	46.0	36.3	53.7	.22	W.	4	10⅓	Clear	.01	7
49.0	−6	10	5	21	−1	45.3	40.7	73.7	.26	N.	2	4	Clear	.....	8
45.5	−7	6	2	15	−3	42.7	39.0	79.0	.24	N. E.	6	6⅔	Cloudy ..	.....	9
53.0	+3	6	.....	9	+9	51.0	49.8	90.3	.26	S. E.	4	5⅓	Cloudy ..	(*)	10
48.2	+5	.....	17	22	−12	46.7	42.2	74.7	.29	N. W.	5	11	Cloudy ..	.40	11
33.2	−7	1	7	15	−13	29.3	19.0	53.0	.11	N. W.	9	9⅓	Clear	.....	12
32.0	−6	12	2	20	+4	27.7	20.3	61.3	.11	N.	5	6⅔	Fair	.....	13
37.2	+1	7	6	14	+2	37.0	36.7	96.7	.22	N.	7	7⅓	Rainy	1.89	14
42.5	+4	12	13	29	+3	38.0	27.7	56.3	.16	N. W.	9	9⅓	Clear	.....	15
37.5	−8	10	2	20	0	31.3	18.3	48.0	.10	S. W.	10	12⅔	Clear	.....	16
42.5	−2	16	13	31	+1	38.0	29.3	58.7	.16	N. W.	3	6⅓	Fair	(*)	17
33.0	−10	6	3	19	−7	28.7	19.3	58.0	.11	S.	1	4⅔	Fair	(*)	18
37.2	+1	9	7	17	+3	36.3	34.3	88.3	.20	N. E.	4	5⅔	Cloudy ..	.11	19
41.5	+2	6	2	10	+6	40.3	38.7	91.7	.24	N. E.	2	2⅓	Cloudy ..	.03	20
29.0	−5	.....	11	16	−16	27.7	22.7	75.7	.12	N. E.	8	9	Sleet and snow.	.02	21
33.7	+2	8	.....	10	+10	32.3	31.0	93.3	.17	S.	2	5	Sleet and snow.	.32	22
36.0	0	2	3	18	−1	35.0	32.7	87.0	.19	N. E.	7	7	Rainy	.43	23
48.5	+2	16	.....	.....	+18	45.3	43.8	87.3	.29	S.	7	7	Cloudy ..	.23	24
41.7	−3	.....	14	17	−17	41.3	37.8	80.0	.24	N. W.	7	9⅔	Cloudy ..	.37	25
20.7	−14	3	7	24	−18	18.3	7.3	53.7	.06	N. W.	11	13⅓	Fair	.01	26
26.5	−3	16	1	20	+12	22.7	16.0	67.0	.10	S. W.	8	9	Clear	.....	27
37.1	−0.5	13.5	5	19	+8	31.7	20.0	54.7	.11	S.	5	5⅔	Fair	.....	28
44.6	−0.5	9.5	.....	10	+9	41.7	38.7	82.3	.24	S. W.	2	2⅓	Fair	.....	29
49.5	+1	14	18	33	−3	46.3	39.7	68.0	.25	N.	5	8⅓	Fair	(*)	30
34.2	−14	8	.....	22	−6	30.7	26.7	79.3	.15	E.	4	4⅓	Cloudy ..	.08	31
41.5	+22 −122	290	180	614	+125 −115	38.1	32.3	71.9	.199	S.		7.53	.....	4.66	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

JANUARY, 1880.

Day of month.	Mortality.																			Meteorological conditions.				
																				Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	4	8	12	....	1	..	..	..	..	..	1	1	2	..	1	1	4	3	..	30.40	+ .23	....	.04	.27	+ .19
2	5	5	10	1	....	..	..	..	..	..	..	3	1	1	..	1	2	4	2	30.23	— .17	.13	.06	.36	— .10
3	7	3	10	....	....	..	..	..	..	..	..	1	2	2	..	2	..	3	2	30.53	+ .21	.07	....	.28	+ .28
4	4	5	9	....	....	..	1	..	..	..	1	3	3	..	..	..	2	4	..	30.31	— .14	....	.17	.31	— .31
5	3	3	6	1	....	..	..	..	..	..	..	1	1	..	..	..	1	3	..	30.50	+ .18	.11	....	.29	+ .29
6	9	10	19	....	2	..	1	..	..	..	..	2	4	4	..	..	3	10	1	30.30	— .09	....	.20	.29	— .29
7	5	4	9	....	....	..	..	..	1	..	..	3	2	1	..	..	1	4	..	30.37	+ .06	.10	....	.16	+ .16
8	7	6	13	....	....	..	..	..	..	1	..	4	1	3	3	1	3	2	..	30.33	— .02	.01	.08	.11	— .09
9	6	2	8	1	1	..	..	..	..	..	..	2	4	..	..	..	2	4	..	30.15	— .05	....	.18	.23	— .23
10	4	7	11	....	....	..	..	..	..	..	..	1	2	1	1	..	1	5	2	30.35	+ .12	.22	....	.34	+ .34
11	4	3	7	2	1	..	..	..	..	..	..	2	2	..	..	..	1	2	..	30.33	0	....	.15	.15	— .15
12	4	6	10	....	....	1	1	..	..	..	..	1	3	1	..	1	2	5	2	30.23	— .10	.13	.02	.25	+ .01
13	6	3	9	....	....	..	..	..	..	..	..	1	3	*1	..	1	5	3	30.43	+ .03	.23	....	.26	+ .26
14	2	5	7	....	....	1	..	..	..	..	..	3	1	1	..	1	3	1	30.47	+ .02	....	.15	.17	— .13
15	3	5	8	....	....	..	..	..	..	1	2	2	1	1	..	..	4	..	30.34	— .10	.03	....	.13	— .07
16	6	5	11	....	....	1	1	..	..	..	..	5	1	..	..	1	5	..	30.28	— .03	.01	.06	.10	— .08
17	9	7	16	....	....	..	..	..	..	1	4	5	4	..	..	4	9	..	30.06	— .06	....	.21	.27	— .27
18	4	5	9	....	....	1	..	..	..	..	..	2	5	..	..	..	..	6	..	29.97	— .09	.14	.01	.24	+ .04
19	3	3	6	....	....	..	..	..	..	..	..	2	1	1	..	..	1	2	..	29.94	+ .02	....	.17	.19	— .15
20	5	4	9	....	....	..	..	..	..	..	..	5	1	..	..	..	..	4	..	29.67	— .09	.09	.23	.41	— .23
21	13	6	19	....	1	1	..	..	..	..	..	6	2	3	..	..	3	10	1	30.00	+ .30	.07	....	.37	+ .37
22	5	5	10	....	....	..	1	..	..	..	..	2	1	1	1	1	2	1	..	29.69	- .13	....	.28	.41	— .41
23	5	5	10	....	....	..	..	..	..	..	..	3	2	2	..	..	..	3	2	29.86	+ .11	.22	....	.33	+ .33
24	4	6	10	1	....	..	..	..	..	..	..	2	1	2	..	..	..	5	2	30.19	+ .20	.06	....	.26	+ .26
25	5	4	9	....	....	..	1	..	..	..	..	2	..	1	..	1	1	3	1	30.22	+ .02	.05	.05	.12	+ .02
26	10	5	15	....	....	..	..	..	..	..	..	6	..	5	..	..	3	6	1	30.21	+ .02	....	.07	.09	— .05
27	5	4	9	....	....	..	..	..	..	..	..	3	3	1	..	..	..	6	..	29.91	— .20	....	.09	.29	— .29
28	2	5	7	....	....	..	..	..	..	..	..	1	2	2	1	..	2	3	..	30.08	+ .10	.17	....	.27	+ .27
29	2	3	5	....	....	..	..	..	1	..	..	2	1	..	..	..	1	3	..	30.55	+ .26	.23	....	.49	+ .49
30	3	3	6	....	....	..	..	..	..	1	..	..	1	3	..	..	..	4	..	30.40	— .04	....	.35	.39	— .39
31	5	5	10	....	1	..	..	..	..	..	..	2	2	3	..	..	..	4	..	29.99	— .25	.03	.06	.33	— .27
Totals and means.	159	150	309	6	7	5	6	..	2	2	4	68	65	47	10	8	41	135	20	30.20	+1.88 —1.55	2.10	2.63	8.16	+3.31 —3.51

classified by color, different diseases, and ages, &c.—Continued.

JANUARY, 1880.

Meteorological conditions.															
Thermometrical.															
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
39.1	— 4.5	13.5	9	27	0	35.0	26.5	62.7	.145	W.	1	4⅓	Clear.....	.....	1
47.7	— 3	10	.....	13	— 13	43.7	40.0	77.0	.25	S. W.	2	3	Cloudy....	.....	2
42.7	— 5	.....	6	11	— 11	38.7	30.0	60.7	.17	E.	5	5	Cloudy....	.....	3
51.5	— 4	22	2	28	+ 16	47.0	43.8	80.3	.30	S.	6	6	Fair	.....	4
45.7	— 6	.....	7	13	— 13	41.3	33.3	60.0	.19	N. E.	11	11	Rainy.....	.02	5
42.0	— 5	6	.....	11	+ 1	40.0	38.0	88.7	.23	S. E.	2	4⅓	Cloudy....	.09	6
45.7	+ 1	1	.....	2	+ 2	46.8	41.0	83.3	.26	N. E.	7	7	Cloudy....	.28	7
40.0	— 5	4	8	17	— 9	38.7	35.3	80.0	.21	E.	3	4⅔	Fair	.....	8
41.7	+ 1	5	....	6	+ 6	40.5	39.0	93.3	.24	S. E.	2	5	Foggy	.03	9
44.5	0	12	15	27	— 3	41.2	33.0	67.3	.19	N. W.	4	4⅓	Clear.....	(*)	10
44.7	— 5	13	.....	18	+ 8	40.8	38.0	76.7	.23	S. E.	2	4	Cloudy....	.....	11
43.2	+ 1	5	19	25	— 13	44.0	41.7	85.7	.27	N.	5	9	Cloudy....	.25	12
27.7	— 9	7	7	23	— 9	25.7	19.7	71.3	.11	N. W.	9	9⅔	Clear,snow	.20	13
29.0	— 10	20	4	34	+ 6	26.2	22.0	80.0	.12	S.	3	3	Clear.....	.....	14
33.7	— 6	15	7	28	+ 2	31.3	27.0	78.3	.15	N. W.	4	4	Clear.....	.....	15
32.7	— 6	11	7	24	— 2	32.3	31.3	93.3	.18	S. W.	1	1⅔	Clear.....	.....	16
38.7	— 1	11	1	13	+ 9	37.0	35.7	91.3	.21	N. E.	2	3⅓	Cloudy....	.....	17
44.7	— 2	15	11	28	+ 2	41.0	35.3	69.0	.21	N.	7	7	Fair	.02	18
47.2	— 10	23	6	39	+ 7	41.7	35.3	68.3	.21	S.	4	4⅓	Fair	.....	19
57.0	— 2	14	3	19	+ 9	49.7	42.0	61.0	.27	S. W.	8	10⅔	Fair	.14	20
43.7	— 18	9	8	35	— 17	39.0	30.3	58.7	.17		0	2⅔	Clear.....	.....	21
44.2	— 1	5	.....	6	+ 4	42.5	40.7	90.0	.26	N.	2	5⅓	Rainy.....	.45	22
40.2	— 9	11	10	30	— 8	36.0	26.0	60.0	.15	N. W.	6	6⅔	Clear.....	.30	23
38.2	— 2	9	9	20	— 2	33.7	23.7	54.3	.13	N. W.	5	5	Clear.....	.....	24
34.2	— 9	15	8	32	— 2	32.1	29.0	80.3	.16	S.	1	1⅓	Fair	.....	25
39.0	— 7	20	6	33	+ 7	34.0	26.0	58.0	.14	N. E.	3	3⅔	Fair	.....	26
48.0	+ 4	4	.....	8	+ 8	46.7	45.3	92.7	.30	N. W.	4	5	Rainy.....	.63	27
51.7	— 2	17	16	35	— 1	47.7	45.7	68.3	.27	N. W.	5	6	Fair	(*)	28
39.2	— 12	11	10	33	— 11	35.2	26.7	60.0	.15	N. E.	6	6⅔	Clear.....	.....	29
39.0	— 5	10	1	16	+ 4	36.0	32.0	78.3	.18	N. W.	2	6	Cloudy....	.01	30
45.2	+ 9	.....	8	17	+ 1	42.3	35.5	68.3	.23	N. W.	9	9	Cloudy....	.09	31
41.7	+ 19 —145.5	318.5	188	671	+105 —101	39.0	33.8	74.1	.202	N. W.		5.88	.....	2.50	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

FEBRUARY, 1880.

Day of month.	Mortality.																			Meteorological conditions.					
																				Barometrical.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	3	2	5	....	....	..	..	..	..	..	..	1	..	1	1	..	..	3	1	30.18	— .01	.36	...	.37	+ .35
2	2	6	8	....	....	..	..	..	..	..	..	2	1	1	1	..	1	4	1	30.31	+ .15	....	.31	.46	— .16
3	2	8	10	....	....	..	..	..	..	..	..	2	4	1	..	..	2	4	1	29.54	— .84	.36	....	1.20	— .48
4	9	11	20	....	3	..	..	..	1	..	..	2	5	4	..	..	4	11	1	30.13	+ .26	.30	....	.56	— .56
5	5	6	11	....	2	..	..	..	1	..	..	2	3	2	..	..	2	9	..	30.40	+ .19	....	.08	.27	+ .11
6	6	6	12	....	....	..	..	..	..	..	..	4	3	1	..	1	2	4	2	30.35	0	.04	.06	.10	+ .02
7	3	6	9	....	....	..	..	..	..	..	2	2	1	3	1	..	2	4	1	30.47	— .02	.28	....	.30	+ .26
8	11	1	12	....	1	..	..	..	1	1	..	..	3	2	..	..	3	3	..	30.41	+ .07	....	.42	.49	+ .35
9	6	10	16	....	2	..	..	..	..	..	1	4	3	2	..	1	1	6	..	30.35	— .10	.31	....	.41	+ .21
10	10	2	12	....	1	..	..	..	..	1	..	3	3	..	..	..	4	5	3	30.29	— .02	....	.23	.25	+ .25
11	9	3	12	1	1	..	..	..	..	..	1	3	..	3	..	..	2	3	..	30.33	+ .21	....	.19	.40	+ .02
12	7	12	19	....	1	..	1	..	..	..	..	3	4	4	..	..	2	11	2	29.89	— .27	....	.11	.38	— .38
13	3	7	10	2	1	..	..	..	..	..	..	4	1	1	..	..	..	3	1	29.58	— .25	....	.06	.31	— .31
14	6	1	7	....	....	..	..	..	..	..	..	..	3	..	..	..	2	3	2	29.98	+ .26	.26	....	.52	+ .52
15	1	2	3	....	....	..	..	..	..	..	..	1	..	1	..	..	..	2	1	30.15	— .04	.23	....	.27	+ .19
16	7	7	14	....	....	..	..	..	..	..	..	6	1	3	1	..	5	1	1	30.52	+ .21	.10	....	.31	+ .31
17	7	5	12	1	2	..	..	..	..	1	..	1	3	1	..	..	4	7	2	30.48	+ .02	....	.16	.18	— .14
18	12	6	18	1	....	..	..	1	..	..	..	6	3	4	..	1	4	8	2	30.12	— .14	.01	.23	.38	— .36
19	9	3	12	....	1	..	..	..	..	..	..	5	2	2	1	..	5	3	..	30.48	+ .23	.30	...	.53	+ .53
20	4	11	15	....	....	..	..	1	..	1	..	3	1	..	1	..	3	5	1	30.51	+ .07	....	.27	.34	— .20
21	5	9	14	....	....	1	..	..	..	..	..	6	5	..	..	1	1	6	..	29.92	— .44	.16	.16	.76	— .44
22	7	5	12	....	....	..	..	..	..	..	..	3	2	2	..	..	3	7	1	29.91	+ .07	....	.19	.26	— .12
23	6	2	8	....	1	..	..	1	1	..	..	1	2	..	1	..	2	2	..	29.93	— .14	.38	...	.52	+ .24
24	7	11	18	...	1	..	..	..	..	..	..	5	6	2	..	..	1	8	..	30.22	+ .17	.01	.05	.23	+ .13
25	10	10	20	....	1	..	..	..	..	..	..	2	6	2	2	..	4	10	1	29.89	— .12	....	.29	.41	— .41
26	6	7	13	....	1	..	..	..	..	..	1	5	1	1	..	..	1	8	1	29.92	+ .06	.17	.03	.26	+ .20
27	4	4	8	....	....	..	..	..	..	..	..	1	..	3	..	..	1	4	1	30.18	+ .18	.07	.04	.29	+ .21
28	11	7	18	....	....	..	..	..	..	..	..	5	6	2	1	..	2	7	1	30.00	— .05	....	.27	.32	— .32
29	7	7	14	....	2	..	1	1	..	..	..	2	4	..	..	..	3	6	..	29.89	— .07	.13	....	.20	+ .06
Totals and means.	185	177	362	5	21	1	2	4	4	4	5	84	76	48	10	4	69	155	27	30.15	+2.15 —2.51	3 47	3.15	11.28	+3.90 —3.94

classified by color, different diseases, and ages, &c.—Continued.

FEBRUARY, 1880.

Meteorological conditions.																
Thermometrical.																
Record of dry bulb.																
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
31.0	— 7	2	11	20	— 16	28.0	17.7	53.7	.10	N.W. 12	12	Clear	.....	1
22.0	— 10	8	.....	18	— 2	19.7	14.3	77.0	.09	N.E. 7	7⅔	Snow	.10	2
31.7	+ 7	3	3	13	+ 7	30.8	29.0	87.7	.16	N.W. 7	9⅓	Cloudy ..	.44	3
29.2	— 7	13	9	29	+ 3	26.3	19.3	65.3	.11	W. 4	6	Clear	.....	4
27.7	— 13	17	.....	30	+ 4	24.7	20.7	80.0	.12	S. 4	5	Fair	.....	5
36.2	— 2	15	10	27	+ 3	32.3	23.7	62.3	.13	S.W. 3	3⅓	Clear	.....	6
33.2	— 8	17	13	38	+ 4	29.3	20.0	56.7	.11	N.W. 8	8⅔	Fair	.....	7
32.5	— 10	18	4	32	+ 4	28.3	21.0	65.3	.12	S. 6	6⅔	Clear	.....	8
33.7	— 0	7	13	20	+ 6	30.3	19.7	53.0	.11	N.W. 7	10	Clear	.....	9
28.7	— 9	12	.....	21	+ 3	26.0	22.7	79.3	.13	S.E. 2	4⅔	Cloudy ..	.....	10
39.4	— 5.5	20.5	5	31	+ 10	35.0	28.5	72.0	.16	S.E. 4	5⅓	Fair	.....	11
54.0	+ 6	10	3	19	+ 13	51.0	48.3	82.7	.34	S.W. 13	13⅓	Cloudy ..	.56	12
62.0	+ 3	6	1	10	+ 8	58.7	56.3	83.0	.46	S. 17	18⅓	Cloudy ..	.15	13
46.5	— 13	.....	7	20	— 20	41.7	33.3	56.7	.19	N.W. 10	11⅓	Cloudy ..	.....	14
39.0	— 5	6	7	18	— 6	37.0	32.3	73.0	.19	N.W. 10	10⅓	Cloudy ..	.....	15
44.5	— 5	23	9.5	37.5	+ 8.5	38.0	28.3	55.0	.16	S.W. 6	6	Clear	.....	16
49.0	— 7.5	20	8	35.5	+ 4.5	43.3	33.0	65.7	.19	S.W. 10	10	Fair	.....	17
51.7	0	9	10	19	— 1	49.0	43.7	75.7	.29	S. 6	9⅓	Cloudy ..	.26	18
31.7	— 13	3	13	29	— 23	28.0	15.3	46.3	.09	N.W. 18	19	Clear	.....	19
27.2	— 7	15	6	28	+ 2	23.2	14.3	56.7	.09	S.W. 4	7⅓	Clear	.....	20
39.2	— 3	15	6	24	+ 12	34.7	27.0	63.7	.15	S.W. 2	9⅔	Snow	.07	21
41.7	+ 8	17	6	31	+ 3	37.0	30.3	65.7	.17	S. 5	7⅓	Fair	.....	22
40.2	0	3	10	13	— 7	35.3	23.0	48.3	.13	N.W. 14	14⅔	Fair	.....	23
41.0	— 5	18	7	30	+ 6	33.7	19.0	45.0	.11	N.W. 4	6	Clear	.....	24
56.0	— 3	26	5	34	+ 18	48.3	41.2	62.3	.27	S. 15	15	Cloudy ..	.....	25
59.5	— 5	8	3	16	0	54.7	50.8	72.7	.37	W. 5	7⅔	Fair	.01	26
58.2	— 16	25	9	50	0	50.7	41.0	62.3	.29	S. 1	5⅓	Fair	.....	27
53.0	— 6	.....	2	8	— 8	50.3	47.0	80.0	.32	S.E. 5	5	Cloudy ..	.11	28
52.5	+ 3	14	16	33	+ 1	49.2	35.0	47.3	.22	N.W. 3	8	Cloudy ..	.01	29
41.1	+ 22 —165	350.5	196.5	734	+107 — 96	37.1	29.5	65.3	.189	S.	9.07	.....	1.71	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

MARCH, 1880.

Day of month.	Mortality.																			Meteorological conditions.				
																				Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	4	7	11	..	..	..	..	..	..	..	..	3	5	..	1	..	3	2	..	30.17	+ .12	.17	....	.29	+ .29
2	10	9	19	1	1	..	..	..	..	..	..	5	7	..	..	..	3	7	1	30.45	+ .18	.08	.02	.28	+ .24
3	3	2	5	..	..	..	1	..	..	..	..	..	1	..	..	..	2	1	..	30.16	— .02	....	.48	.50	— .50
4	5	6	11	..	1	..	..	..	..	..	1	4	2	1	..	..	1	6	1	29.77	— .15	....	.08	.23	— .23
5	7	5	12	..	..	..	..	..	..	..	1	2	2	3	1	1	3	5	..	29.63	— .21	.22	.03	.46	— .02
6	5	8	13	..	..	..	..	..	..	..	..	3	4	..	..	..	3	8	2	30.19	+ .35	.19	....	.54	+ .54
7	5	9	14	1	..	..	..	..	..	..	..	4	2	3	..	..	3	4	..	30.10	0	....	.25	.25	+ .25
8	6	2	8	1	..	..	1	..	1	..	..	2	1	..	1	..	2	2	..	30.22	+ .16	.07	....	.23	+ .23
9	5	5	10	1	..	..	..	..	..	..	..	..	..	2	..	..	3	6	2	30.08	— .05	....	.17	.22	— .22
10	4	3	7	..	..	..	..	..	..	..	..	2	3	..	1	..	2	2	..	30.14	+ .04	.12	....	.16	+ .16
11	9	8	17	..	1	..	..	1	..	1	..	5	7	..	2	..	1	7	..	30.24	— .06	.22	....	.28	+ .16
12	5	7	12	..	1	..	..	..	..	..	..	4	3	1	..	..	2	7	2	30.43	+ .07	.08	.09	.24	+ .06
13	4	6	10	..	..	..	..	..	..	..	..	3	1	2	..	..	3	1	..	30.42	+ .04	....	.04	.08	0
14	3	8	11	..	1	1	..	..	..	..	..	2	3	1	..	..	1	7	..	30.22	— .13	.07	.12	.32	— .18
15	6	8	14	1	1	..	1	1	..	..	1	3	2	1	..	..	..	6	..	30.21	+ .06	....	.12	.18	— .06
16	6	4	10	..	1	..	..	..	..	..	..	4	2	1	..	..	..	4	1	29.89	— .25	.15	.13	.53	— .23
17	4	6	10	..	1	..	..	..	..	..	..	4	2	1	..	..	1	6	1	30.26	+ .24	.16	....	.40	+ .40
18	6	13	19	..	..	..	..	..	..	..	..	6	4	2	*2	1	6	5	2	30.20	+ .05	....	.29	.34	— .24
19	4	8	12	..	..	..	1	..	..	..	..	1	1	4	..	..	1	4	1	29.81	— .26	.14	.14	.54	— .26
20	1	6	7	..	..	..	..	..	..	..	..	..	5	1	..	..	..	6	1	30.01	+ .21	.02	.06	.29	+ .17
21	4	5	9	..	..	..	..	..	..	..	..	2	2	2	..	..	..	4	1	30.27	+ .29	....	.05	.34	+ .24
22	1	4	5	..	..	..	..	..	..	..	1	1	2	..	1	..	1	3	..	30.10	— .06	.05	.15	.26	— .16
23	8	8	16	..	1	..	..	..	..	..	1	4	4	2	..	..	3	8	1	29.86	— .02	....	.31	.33	— .33
24	....	2	2	..	..	..	..	..	..	1	..	..	..	..	..	..	1	1	..	30.16	+ .28	.22	....	.50	+ .50
25	2	7	9	..	..	..	..	..	..	..	..	1	2	1	1	..	2	4	2	30.40	+ .15	.02	.03	.20	+ .14
26	....	5	5	..	..	..	..	..	..	..	..	2	2	..	..	..	..	2	..	30.31	+ .04	....	.19	.23	— .15
27	6	5	11	1	..	..	..	..	..	..	..	2	3	1	1	..	3	3	..	29.60	— .24	....	.63	.87	— .87
28	4	5	9	..	..	..	..	..	..	..	..	1	1	2	1	..	3	4	1	29.52	+ .04	.20	....	.24	+ .24
29	7	9	16	..	..	..	1	..	..	..	..	5	4	2	2	..	1	8	1	29.96	+ .21	.23	....	.44	+ .44
30	7	5	12	..	..	..	..	..	.	1	..	1	4	2	..	..	3	7	1	30.08	+ .06	.06	.09	.21	+ .03
31	4	4	8	..	..	..	..	..	..	..	..	2	5	..	..	..	1	3	..	30.05	+ .04	.01	.11	.16	— .06
Totals and means.	145	189	333	6	9	1	5	2	1	3	5	78	85	38	14	2	60	143	21	30.09	+2.63 —1.45	2.48	3.58	10.14	+3.84 —3.76

classified by color, different diseases, and ages, &c.—Continued.

MARCH, 1880.

Meteorological conditions.															
Thermometrical.															
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
43.0	— 9	4	8	21	— 13	37.0	23.7	45.3	.13	N. W.	6	6⅔	Fair.....	.01	1
42.0	— 9	20	8	37	+ 3	35.7	25.0	54.0	.14	S.	3	4⅓	Clear.....	.....	2
46.7	— 5	12	.....	17	+ 7	42.0	37.0	72.7	.23	S.	9	11⅓	Rainy....	.32	3
63.0	— 1	26	11	38	+ 14	55.0	48.3	64.3	.34	W.	4	8⅓	Cloudy...	.04	4
68.2	0	15	14	29	+ 1	56.7	41.7	44.3	.29	W.	12	13⅓	Fair.....	.14	5
48.2	— 21	9	5	35	— 17	41.0	38.3	49.0	.16	N.	8	9⅔	Clear.....	.....	6
39.2	— 6	5	7	18	— 8	38.3	37.3	94.3	.32	E.	4	6⅓	Rainy....	1.32	7
43.7	— 1	7	5	13	+ 3	39.0	30.7	60.6	.17	N. W.	5	8	Cloudy...	.....	8
33.2	— 12	3	.....	15	— 9	31.7	29.7	85.0	.16	N.	7	7⅓	Rain and snow.	.36	9
41.2	— 1	13	3	17	+ 9	38.2	34.7	78.7	.20	S. W.	5	5	Cloudy...	(*)	10
32.7	— 8	.....	4	12	— 12	32.3	31.0	89.7	.17	N.	8	8⅔	Rainy....	.08	11
30.5	— 2	2	.....	4	0	29.7	28.0	92.7	.15	N.	7	8	Snow.....	.24	12
28.7	— 6	5	.....	11	— 1	27.0	24.3	84.7	.13	N.	7	7⅔	Rain and snow.	.15	13
36.0	+ 1	7	.....	8	+ 8	34.3	33.0	90.0	.19	N. W.	2	2⅔	Cloudy...	.03	14
37.5	— 2	4	3	9	— 1	35.3	31.0	78.3	.18	N. E.	4	5⅓	Cloudy...	.22	15
40.7	0	5	.....	5	+ 5	38.2	34.7	80.7	.20	N.	4	8	Cloudy...	.74	16
37.5	— 7	8	7	22	— 6	32.3	18.3	50.0	.10	N. W.	10	10⅓	Clear.....	.....	17
37.5	— 7	12	.....	19	+ 5	32.3	24.0	63.0	.13	S. E.	6	7⅓	Cloudy...	.....	18
41.5	— 2	4	1	7	+ 1	40.2	38.3	90.0	.23	N.	4	6⅔	Rainy....	.67	19
49.2	— 1	13	3	17	+ 9	40.7	27.7	45.0	.15	W.	7	8⅔	Fair.....	.02	20
40.7	— 15	11	7	33	— 11	33.7	26.0	40.7	.15	N. W.	7	8	Clear.....	.....	21
45.2	— 8	25	11	44	+ 6	39.7	31.7	62.7	.18	W.	2	3	Clear.....	.....	22
50.5	— 10	24	7	41	+ *7	42.7	34.0	57.7	.20	S. W.	3	6	Clear.....	.....	23
34.0	— 19	6	9	34	— 22	29.0	14.7	43.7	.09	N. W.	23	23	Clear.....	.....	24
33.7	— 8	17	4	29	+ 5	28.3	17.3	55.0	.10	N. W.	6	6⅓	Clear.....	.....	25
39.2	— 4	10	.....	14	+ 6	33.3	23.0	56.0	.13	E.	6	6	Cloudy...	.....	26
50.5	0	15	.....	15	+ 15	47.0	45.5	90.0	.31	S.	2	6⅔	Rainy....	1.09	27
44.7	— 10	1	6	17	— 15	43.3	40.0	82.0	.25	N. W.	9	13	Rainy....	.16	28
38.7	— 7	9	6	22	— 4	33.7	23.3	53.3	.13	N.	13	13⅓	Cloudy...	.01	29
44.2	— 2	15	6	23	+ 7	37.3	25.7	49.3	.14	N. W.	12	12⅓	Clear.....	.....	30
48.0	— 8	18	5	31	+ 5	38.3	22.0	38.0	.12	N. W.	11	11⅓	Clear.....	.....	31
42.2	+ 2 —190	325	140	657	+116 —119	37.5	30.3	65.8	.18	N. N. W.		8.47	.....	5.60	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

APRIL, 1880.

Day of month.	Mortality.																			Meteorological conditions.					
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Barometrical.					
																				Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	8	3	11	....	....	..	..	1	..	..	..	3	4	..	..	..	1	4	..	30.14	+ .11	.12	.08	.31	+ .15
2	4	4	8	....	....	..	..	..	..	..	..	3	1	2	1	..	1	3	1	30.21	+ .11	....	.12	.23	— .01
3	1	3	4	....	...	..	..	..	..	..	..	2	2	..	..	..	..	2	..	29.97	— .05	....	.21	.26	— .26
4	9	10	19	....	1	..	..	2	..	..	1	4	1	3	1	..	3	9	1	29.76	— .09	.15	.08	.32	— .02
5	9	11	20	....	....	..	..	..	..	..	2	4	3	2	*4	1	6	5	1	29.86	+ .10	.12	.12	.34	+ .10
6	3	2	5	....	1	..	1	..	..	..	..	2	..	..	..	..	..	2	1	29.87	+ .06	.02	.09	.17	- .01
7	3	4	7	....	....	..	..	..	..	..	..	1	1	2	..	..	3	1	1	38.20	+ .20	.21	....	.41	+ .41
8	7	10	17	....	3	..	1	..	..	..	1	5	3	2	..	..	4	8	1	30.30	+ .11	....	.14	.25	— .03
9	7	6	13	....	1	..	..	..	1	..	..	4	..	4	..	1	3	7	1	30.08	— .03	....	.23	.26	— .26
10	6	8	14	....	....	..	..	..	..	..	..	2	5	2	2	..	3	8	..	29.67	— .08	....	.36	.44	— .44
11	5	6	11	....	....	..	..	..	1	1	..	2	4	..	..	..	1	4	..	30.00	+ .29	.27	....	.56	+ .56
12	9	2	11	....	1	..	..	..	..	..	..	2	1	2	1	1	4	3	..	30.21	+ .14	.01	.07	.22	+ .08
13	5	7	12	....	1	..	..	..	1	..	..	2	1	1	..	..	4	6	1	30.07	+ .07	....	.28	.35	— .21
14	9	8	17	....	....	..	..	..	..	..	..	3	7	2	1	1	2	7	..	30.03	+ .13	....	.12	.25	+ .01
15	4	3	7	....	....	..	..	..	..	..	..	3	1	..	1	..	2	2	..	29.98	+ .03	.06	.11	.20	— .02
16	4	3	7	....	....	..	..	..	..	..	1	..	2	1	1	..	1	3	..	29.77	— .03	....	.27	.30	— .30
17	3	4	7	....	1	..	..	..	..	..	..	1	..	..	..	..	2	4	..	30.00	+ .16	.26	....	.42	+ .42
18	6	5	11	....	....	..	..	..	..	2	..	2	3	1	..	2	3	5	1	30.20	+ .16	....	.08	.24	+ .08
19	4	6	10	....	1	..	..	..	..	1	..	2	2	1	..	..	1	4	..	29.98	— .04	....	.22	.26	— .26
20	3	6	9	....	1	..	..	..	..	..	..	1	1	4	..	..	..	6	..	30.21	+ .21	.14	....	.35	+ .35
21	2	6	8	....	2	..	..	..	..	..	..	1	..	1	1	..	2	3	..	30.27	+ .07	....	.11	.18	— .04
22	3	5	8	....	....	..	..	..	..	..	..	1	3	3	..	..	..	4	..	30.03	— .04	....	.24	.28	— .28
23	3	8	11	....	1	..	..	..	..	1	..	4	1	..	..	2	1	4	..	29.92	— .01	....	.02	.03	— .03
24	5	4	9	....	....	..	..	..	..	..	..	1	2	..	2	1	3	2	..	30.03	+ .02	.16	....	.18	+ .18
25	5	8	13	....	....	..	..	..	..	..	..	3	..	3	2	..	1	7	1	30.14	+ .08	.02	.20	.30	— .10
26	4	4	8	....	....	..	..	..	..	..	..	2	2	1	..	..	1	3	1	29.74	— .19	.03	.11	.33	— .27
27	5	1	6	....	....	..	..	..	..	..	..	1	3	..	..	..	3	1	..	30.17	+ .27	.23	....	.50	+ .50
28	5	5	10	....	3	..	..	..	..	..	..	2	1	1	..	..	..	5	1	30.39	+ .18	....	.04	.22	+ .14
29	5	5	10	....	....	..	..	..	..	..	1	3	3	1	..	..	5	3	..	30.03	— .05	....	.48	.53	— .53
30	6	2	8	....	2	..	..	..	..	..	..	1	1	..	..	..	4	2	..	30.06	+ .02	.35	...	.37	+ .37
Totals and means.	152	159	311	....	19	..	2	3	3	5	6	67	58	39	17	9	64	127	12	30.04	+2.52 -- .61	2.15	3.78	9.06	+3.35 —3.07

classified by color, different diseases, and ages, &c.—Continued.

APRIL, 1880.

Meteorological conditions.															
Thermometrical.															
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew-point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
53.0	− 14	28	8	50	+ 6	43.3	30.0	50.7	.17	S. W.	1	2⅓	Clear.....	.....	1
58.7	− 12	27	11	50	+ 4	50.0	40.8	56.7	.26	S.	4	7	Cloudy...	.....	2
61.0	− 1	6	5	12	0	57.3	54.2	77.0	.42	S.	15	16⅓	Cloudy...	.13	3
65.2	+ 2	17	19	38	0	58.7	52.0	62.3	.39	S. W.	7	11⅔	Clear.....	.10	4
66.7	+ 3	21	12	36	+ 6	54.0	38.7	42.0	.25	W.	9	12	Clear.....	.....	5
57.5	− 10	12	15	37	− 13	49.7	38.3	47.0	.24	N.	5	5⅔	Cloudy...	(*)	6
42.0	− 13	8	8	29	− 13	35.3	20.3	42.3	.11	N. W.	14	14	Fair.....	.....	7
40.2	− 5	9	3	17	+ 1	33.7	21.3	46.3	.12	N. W.	5	7⅓	Fair.....	.....	8
45.2	− 6	17	10	33	+ 1	39.0	31.3	60.3	.19	W.	5	6⅓	Clear.....	.....	9
56.7	0	25	8	33	+ 17	46.7	39.3	48.7	.25	S.	16	16	Clear.....	.....	10
38.5	− 19	4	9	32	+ 24	33.0	19.0	43.3	.11	N. W.	21	21	Cloudy...	(*)	11
42.0	− 4	16	2	22	+ 10	33.3	16.7	39.3	.10	N. W.	10	10	Clear.....	.....	12
57.5	− 4	26	6	36	+ 16	45.0	28.7	37.7	.16	S.	13	13⅔	Clear.....	.....	13
67.0	− 6	26	15	47	+ 5	53.7	38.7	39.0	.24	S.	8	8	Hazy.....	.....	14
67.0	− 8	22	15	45	− 1	59.0	51.8	59.7	.39	S.	6	7⅔	Hazy.....	.39	15
71.2	− 3	17	7	27	+ 7	63.0	57.3	65.0	.47	S. W.	8	10	Fair.....	.01	16
59.2	− 13	5	7	25	− 15	49.0	35.3	40.0	.21	N. W.	18	18	Clear.....	.....	17
56.0	− 10	20	12	42	− 2	47.3	35.7	48.7	.21	S.	5	6	Clear.....	.....	18
66.7	− 1	23	9	33	+ 13	61.0	57.2	74.3	.48	S.	10	10	Cloudy...	.03	19
51.5	− 13	.....	5	18	− 18	47.0	40.7	66.7	.26	N. W.	8	11⅓	Cloudy...	.32	20
56.5	− 6	24	11	41	+ 7	47.3	34.3	52.7	.20	S.	5	6	Fair.....	.....	21
62.0	− 5	20	10	35	+ 5	51.3	39.3	45.7	.24	S.	11	11	Fair.....	.....	22
57.2	− 6	13	17	36	− 10	50.7	41.7	54.0	.27	E.	7	7⅔	Fair.....	.....	23
46.0	− 5	.....	2	7	− 7	44.7	42.0	87.3	.27	N. E.	8	9⅔	Rainy....	.14	24
49.5	0	6	.....	6	+ 6	47.0	44.7	85.3	.30	E.	5	5	Cloudy...	.12	25
66.0	+ 5	22	13	40	+ 14	60.7	56.5	73.7	.46	S. W.	8	9	Cloudy...	.41	26
53.2	− 14	7	6	27	− 13	45.3	33.7	47.7	.20	N. W.	12	12	Fair.....	.....	27
55.2	− 3	13	7	23	+ 3	45.0	29.7	39.3	.17	S.	1	6⅔	Clear.....	.....	28
53.0	− 4	3	.....	7	− 1	50.0	46.8	81.7	.33	S.	5	8⅓	Rainy....	2.05	29
51.0	+ 3	.....	12	15	− 9	45.3	34.7	50.7	.21	N. W.	17	17	Fair.....	.11	30
55.7	+ 10 −188	437	264	899	+121 −126	48.2	38.3	55.5	.256	S.		10.22	.....	3.81	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

MAY, 1880.

Day of month.	Mortality.																			Meteorological conditions.				
																				Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, inanition, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	5	9	14	....	....	1	..	..	..	1	2	3	3	1	..	1	5	..	..	30.28	+.17	....	.15	.32	+.02
2	4	3	7	....	....	..	..	..	..	..	2	3	2	2	..	1	....	..	..	30.15	+.01	.02	.14	.17	−.11
3	6	7	13	....	....	..	..	..	..	..	3	..	1	..	..	3	3	2	..	30.20	+.10	.02	.04	.16	+.08
4	7	2	9	1	....	..	..	..	..	..	2	1	3	..	..	3	1	..	..	30.18	+.05	....	.09	.14	−.04
5	4	2	6	....	....	..	..	..	..	..	1	2	2	..	..	1	2	1	..	29.95	−.08	....	.18	.26	−.26
6	4	3	7	....	2	..	..	..	..	..	..	1	2	1	..	2	4	..	..	29.92	−.01	.11	.03	.15	+.07
7	4	3	7	....	....	..	..	..	..	..	1	1	2	..	..	2	1	2	..	30.13	+.18	.05	.06	.29	+.17
8	7	5	12	....	....	..	..	..	..	..	..	6	1	..	..	1	2	4	..	30.05	−.03	....	.08	.11	−.11
9	3	5	8	....	....	..	..	..	..	..	..	3	2	1	..	..	1	3	..	30.05	+.05	.04	.07	.16	+.02
10	4	5	9	....	....	..	..	..	..	..	..	5	..	2	..	..	..	4	..	30.06	+.07	....	.09	.16	−.02
11	5	4	9	....	1	..	..	..	..	..	..	4	2	..	..	..	..	4	..	30.05	+.03	.03	.04	.10	+.02
12	7	5	12	1	1	..	..	..	..	..	1	1	1	1	2	..	2	8	3	30.05	+.10	....	.16	.26	−.06
13	7	4	11	....	1	..	..	..	..	..	..	1	..	4	..	..	3	5	2	30.09	+.02	.14	....	.16	+.16
14	2	4	6	....	....	1	1	..	..	..	..	1	..	1	1	..	..	3	..	30.26	+.08	.05	....	.13	+.13
15	5	4	9	1	....	..	..	..	..	..	..	1	3	3	..	..	1	2	..	30.32	+.12	....	.12	.24	0
16	4	8	12	....	2	..	..	..	..	..	..	3	2	3	..	..	..	9	..	30.21	+.06	....	.20	.26	−.14
17	9	4	13	....	....	..	1	..	..	1	..	4	1	..	1	1	2	2	..	30.03	−.02	....	.12	.14	−.14
18	5	10	15	....	1	..	1	..	..	..	..	3	1	2	1	1	3	5	..	29.99	+.04	.01	.08	.13	−.03
19	7	5	12	....	....	1	..	..	..	..	..	3	1	1	..	..	2	5	..	30.03	+.11	....	.07	.18	+.04
20	6	10	16	1	....	..	..	..	..	..	..	5	2	2	..	..	2	7	2	30.03	+.06	.03	.07	.16	+.02
21	4	6	10	....	1	..	..	..	..	..	1	1	2	3	..	..	2	5	..	30.07	+.08	....	.05	.13	+.03
22	3	3	6	....	1	..	..	..	..	..	..	2	1	2	..	..	2	1	..	30.01	+.03	.06	....	.09	+.09
23	5	1	6	....	....	..	..	..	1	..	..	2	..	..	..	..	..	4	..	30.18	+.06	....	.05	.11	+.01
24	3	3	6	1	1	..	..	..	..	..	..	3	..	..	..	..	..	2	..	30.15	+.05	....	.10	.15	−.05
25	2	14	16	1	3	1	..	..	..	..	..	5	..	1	..	..	1	7	1	30.09	+.03	....	.08	.11	−.05
26	9	10	19	....	9	..	1	..	..	..	..	4	..	1	..	..	3	12	1	30.05	+.02	....	.09	.11	−.07
27	7	7	14	....	5	..	..	..	..	..	..	1	2	2	..	1	1	10	1	29.94	+.01	....	.09	.10	−.08
28	7	5	12	....	3	..	1	..	..	..	1	2	..	2	1	1	2	6	1	29.98	+.02	.11	.01	.14	+.12
29	4	4	8	....	4	..	1	..	..	..	..	..	1	1	..	..	..	6	1	30.12	+.13	....	.06	.19	+.07
30	4	7	11	....	1	..	..	..	..	..	..	3	..	2	..	..	2	7	1	29.90	−.12	....	.14	.26	−.26
31	6	12	18	....	3	..	..	..	..	1	..	..	2	6	2	..	1	14	2	30.01	+.16	.02	....	.18	+.18
Totals and means.	159	174	333	6	39	4	6	..	1	2	5	74	36	53	12	7	44	151	18	30.08	+1.84 − .26	.69	2.46	5.25	+1.23 −1.42

classified by color, different diseases, and ages, &c.—Continued.

MAY, 1880.

Meteorological conditions.															
Thermometrical.															
Record of dry bulb.															
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.		Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
52.7	— 3	15	1	19	+11	43.3	30.3	46.7	.17	W.	6	6⅓	Clear.....	.....	1
64.7	— 4	25	12	41	+ 9	53.0	40.3	44.7	.25	S. W.	11	11⅔	Clear.....	.....	2
67.7	— 4	17	12	33	+ 1	59.3	51.8	58.7	.39	S.	11	11	Clear.....	.....	3
67.2	— 4	17	15	36	+ 2	59.3	51.7	60.0	.39	S.	7	7	Clear.....	.....	4
67.0	— 3	12	6	21	+ 3	60.7	55.8	68.7	.45	E.	4	6⅓	Clear.....	.....	5
74.5	— 4	22	10	36	+ 8	62.3	53.0	52.0	.41	W.	6	6⅔	Clear.....	.....	6
66.1	— 12	12.5	12.5	37	−12	57.3	48.8	52.3	.34	S. E.	5	5⅔	Clear.....	.....	7
71.5	— 6	26	10	42	+10	62.0	55.0	68.0	.46	E.	3	5	Fair.....	.....	8
77.5	— 5	10	12	27	− 7	65.3	52.2	50.7	.40	S.	11	11	Clear.....	.....	9
78.0	— 3	14	11	28	0	69.0	62.8	61.3	.58	S.	11	11	Clear.....	.....	10
73.0	— 6	14	15	35	− 7	67.0	61.3	69.0	.55	S. W.	3	4⅓	Cloudy...	1.40	11
68.5	— 7	14	8	29	− 1	54.3	37.7	35.0	.23	N. W.	8	8	Clear.....	.....	12
59.7	— 8	7	11	26	−12	49.3	33.7	38.0	.20	N.	8	9	Clear.....	.....	13
54.0	— 6	12	10	28	− 4	45.7	38.0	46.3	.23	N.	10	10⅓	Clear.....	.....	14
57.0	— 4	16	6	26	+ 6	47.0	33.7	44.7	.20	N. W.	7	7⅓	Clear.....	.....	15
66.5	— 7	24	5	36	+12	53.3	40.0	45.0	.25	W.	7	7	Clear.....	.....	16
76.5	— 1	18	12	31	+ 5	63.0	52.0	43.7	.40	N. W.	7	7⅔	Fair.....	.....	17
78.7	— 6	19	9	34	+ 4	65.3	55.3	48.3	.45	W.	2	2⅓	Fair.....	.....	18
72.0	— 19	20	6	45	− 5	63.7	58.7	66.0	.50	E.	5	6⅔	Fair.....	.....	19
79.7	— 1	17	12	30	+ 4	67.7	58.7	50.0	.50	S.	10	10	Clear.....	.....	20
76.7	— 5	11	9	25	− 3	67.0	60.0	57.0	.52	S.	17	17	Fair.....	.....	21
66.5	— 4	3	8	15	− 9	64.0	62.2	86.0	.56	S. W.	6	14	Cloudy...	.70	22
66.5	— 3	5	.....	8	+ 2	63.7	62.2	87.7	.56	N. E.	1	2⅓	Cloudy...	.91	23
75.0	— 3	14	1	18	+10	70.3	68.5	84.0	.70	S. E.	1	3⅔	Fair.....	.....	24
82.5	— 4	16	7	27	+ 5	73.0	68.3	64.0	.69	S. W.	2	3	Clear.....	.....	25
83.5	— 8	18	10	36	0	73.7	66.0	62.3	.64	S.	3	3⅓	Clear.....	.....	26
82.2	— 6	15	12	33	− 3	72.0	66.0	58.3	.64	S.	4	4	Fair.....	.....	27
75.0	— 5	6	9	20	− 8	68.3	63.5	66.0	.59	S. W.	3	5⅔	Cloudy...	.04	28
70.2	— 5	7	4	16	− 2	62.0	56.0	60.3	.45	E.	7	8⅔	Cloudy...	(*)	29
72.0	+ 1	2	.....	3	+ 3	68.0	65.8	82.0	.64	S.	14	14	Cloudy...	.32	30
74.2	— 5	11	4	20	+ 2	64.0	57.0	56.0	.47	N. W.	8	8⅓	Clear.....	.....	31
70.9	+ 1 −161	439.5	259.5	861	+95 −75	61.7	53.8	58.5	.445	S		7.7	.....	3.37	

TABLE XXIV.—*Showing daily mortality, divided under* 19 *heads,*

JUNE, 1880.

Day of month.	Mortality.																			Meteorological conditions.				
																				Barometrical.				
	Deaths of whites.	Deaths of colored.	Total deaths.	Diarrhœal diseases, 5 years of age and over.	Diarrhœal and intestinal diseases, and marasmus, under 5 years of age.	Malarial fever.	Typhoid fever.	Scarlet fever.	Diphtheria.	Croup.	Whooping-cough.	Phthisis pulmonalis.	Acute diseases of respiratory organs.	Diseases of the nervous system.	Diseases of heart.	Cancer.	60 years of age and over.	Under 5 years of age.	Children 7 days old and under.	Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of barometer from 7 a. m. to 9 p. m.	Total fall of barometer from 7 a. m. to 9 p. m.	Total rise and fall of barometer for 24 hours.	Result of total movement of barometer for 24 hours.
1	2	9	11	....	3	2	..	..	1	..	1	..	2	2	..	..	1	9	..	30.01	+ .02	.08	.09	.19	+ .01
2	3	8	11	1	5	..	..	..	..	..	..	3	2	..	..	..	1	7	..	30.11	+ .07	.06	.03	.16	+ .10
3	5	11	16	....	5	..	..	..	..	..	..	3	2	..	..	..	2	11	3	30.22	+ .06	.05	....	.11	+ .11
4	5	9	14	....	4	..	..	..	..	..	..	4	..	2	..	..	1	6	2	30.26	+ .05	....	.04	.09	+ .01
5	6	5	11	....	2	..	..	..	..	..	..	2	..	4	1	1	3	5	..	30.15	+ .01	....	.15	.16	+ .14
6	5	6	11	....	1	..	..	..	..	..	..	..	1	..	..	1	2	5	3	29.91	— .07	....	.19	.26	— .26
7	7	3	10	....	5	..	..	..	..	..	..	..	..	1	2	..	1	6	..	29.93	+ .07	.05	.02	.14	+ .10
8	11	6	17	....	5	..	..	..	..	..	..	2	3	2	1	..	1	12	..	30.06	+ .12	.02	.02	.16	+ .12
9	8	8	16	1	6	1	..	..	..	..	..	1	1	5	..	1	3	10	..	30.18	+ .12	....	.02	.14	+ .10
10	6	6	12	....	1	..	1	..	..	..	1	1	2	2	1	..	3	7	2	30.17	+ .07	....	.09	.16	+ .02
11	7	12	19	2	4	1	1	..	..	1	1	1	1	2	..	..	6	11	1	30.03	— .03	....	.13	.16	— .16
12	5	12	17	1	4	..	..	..	..	..	..	2	..	2	..	..	2	12	3	29.87	— .05	....	.10	.15	— .15
13	9	9	18	....	6	1	..	..	1	..	..	3	..	4	1	..	..	14	1	29.76	— .02	....	.09	.11	— .11
14	9	7	16	....	2	..	..	..	1	..	..	2	1	3	..	..	3	9	2	29.83	+ .07	.06	....	.13	+ .13
15	6	11	17	1	7	..	1	..	..	..	..	1	..	2	1	..	1	11	..	29.82	— .12	.13	....	.25	+ .01
16	3	3	6	....	4	1	..	..	..	..	..	..	..	..	..	..	..	4	..	30.04	+ .12	.08	....	.20	+ .20
17	7	11	18	2	4	1	..	..	..	..	..	2	3	3	1	..	3	10	..	30.16	+ .08	.05	.02	.15	+ .11
18	8	9	17	1	3	..	..	..	..	..	..	3	2	1	2	..	4	9	..	30.27	+ .09	.03	.02	.14	+ .10
19	5	5	10	....	2	..	..	..	..	..	..	1	1	1	..	..	1	6	1	30.25	+ .03	....	.08	.11	— .05
20	9	5	14	1	7	..	..	..	..	..	..	1	..	1	..	1	..	9	..	30.12	— .03	....	.12	.15	— .15
21	13	7	20	....	10	..	..	..	..	..	..	3	..	1	2	..	4	12	1	29.98	— .04	....	.08	.12	— .12
22	10	8	18	1	7	..	..	..	..	..	..	3	1	2	..	..	3	10	1	29.93	0	.04	.07	.11	— .03
23	5	9	14	2	5	..	..	..	1	..	..	1	2	2	1	..	2	9	1	29.98	+ .07	....	.04	.11	+ .03
24	12	7	19	....	7	1	..	..	..	..	..	5	1	2	..	..	1	10	..	29.95	+ .04	....	.07	.11	— .03
25	3	7	10	....	4	1	..	..	..	..	..	2	..	2	..	..	1	5	..	29.93	+ .01	.09	.07	.17	+ .03
26	8	13	21	....	8	..	..	..	..	..	1	..	2	5	1	..	2	16	..	30.00	+ .05	.05	.05	.15	+ .05
27	9	7	16	....	6	..	2	..	..	..	..	4	..	1	..	2	2	7	..	30.00	+ .05	....	.10	.15	— .05
28	11	10	21	1	6	2	..	..	..	..	..	2	..	1	..	..	5	13	1	29.86	— .02	.04	.13	.19	— .11
29	9	7	16	2	5	1	..	..	..	..	..	2	..	4	..	..	1	10	2	29.90	— .05	....	.01	.06	— .06
30	6	5	11	....	....	..	1	..	..	..	..	4	2	3	..	..	..	5	..	30.09	+ .17	.05	....	.22	+ .22
Totals and means.	212	235	447	16	138	12	6	..	4	1	4	57	28	60	14	6	59	270	24	30.03	+1.37 — .43	.88	1.83	4.51	+1.43 —1.44

classified, by color, different diseases, and ages, &c.—Continued.

JUNE, 1880.

Meteorological conditions.														
Thermometrical.														
Record of dry bulb.														
Daily mean.	Difference between observation taken at 9 p. m. and that of 7 a. m. following.	Total rise of thermometer from 7 a. m. to 9 p. m.	Total fall of thermometer from 7 a. m. to 9 p. m.	Total rise and fall of thermometer for 24 hours.	Result of total movement of thermometer for 24 hours.	Daily mean of wet bulb.	Daily mean of dew point.	Daily mean humidity.	Daily mean of vapor tension in inches.	Resultant direction and force of wind.	Mean force of wind per hour.	State of weather.	Daily rainfall in inches.	Day of month.
71.5	— 4	16	23	43	—11	67.0	63.2	70.7	.58	W. 3	5 5/6	Cloudy	.16	1
57.2	—12	11	6	29	— 7	52.0	46.3	69.3	.32	N. 9	9	Cloudy	.24	2
66.2	+ 2	15	8	25	+ 9	56.0	46.2	54.7	.32	N. 8	8	Fair	.....	3
70.2	+ 2	13	7	22	+ 4	61.3	54.5	58.3	.43	S. E. 2	4 1/3	Clear	.....	4
71.2	+ 6	17	11	34	0	62.3	55.5	58.7	.44	S. 14	14	Fair	.....	5
75.7	+ 1	13	6	20	+ 6	67.7	62.5	65.3	.57	S. 16	17	Cloudy	.....	6
78.2	0	9	9	18	0	67.0	58.5	52.0	.50	W. 5	5 1/3	Fair	.....	7
73.5	+ 8	12	7	27	+ 3	63.0	55.2	53.3	.44	N. E. 5	5	Fair	.....	8
67.0	+ 9	6	3	18	+ 6	62.0	58.8	74.3	.50	E. 6	6	Cloudy	.....	9
67.7	+ 2	4	.....	6	+ 2	64.7	62.8	86.0	.58	S. E. 5	5 2/3	Cloudy	.06	10
79.7	0	17	4	21	+13	73.3	71.0	76.7	.76	S. W. 2	3 1/3	Fair	.14	11
81.0	+ 1	14	21	36	+ 8	74.0	69.7	65.7	.72	S. W. 5	7 1/3	Fair	.23	12
83.2	+ 3	15	10	28	+ 8	72.3	66.2	57.3	.64	W. 12	13	Fair	(*)	13
75.2	+ 6	5	9	20	—10	65.3	57.5	53.3	.48	N. 6	9	Fair	.03	14
61.7	+ 9	.....	2	11	—11	60.3	58.8	90.3	.50	E. 10	10	Rainy	2.28	15
63.5	— 3	12	7	22	+ 2	58.7	54.3	75.7	.43	N. E. 6	8 1/3	Fair	.18	16
71.2	0	17	9	26	+ 8	62.7	56.2	62.0	.46	N. 4	4	Clear	.....	17
73.0	— 6	18	11	35	+ 1	63.3	56.8	57.7	.46	S. 1	2 2/3	Fair	.....	18
74.0	— 5	16	10	31	+ 1	63.3	54.8	54.0	.43	N. E. 1	2	Fair	.....	19
75.2	— 6	19	12	37	+ 1	64.7	58.0	55.0	.48	N. W. 2	2 2/3	Clear	.....	20
78.2	— 2	15	10	27	+ 3	67.3	59.8	54.0	.52	N. W. 7	7 2/3	Clear	.....	21
81.0	— 2	14	9	25	+ 3	70.0	63.2	55.7	.58	N. W. 7	7 1/3	Fair	.....	22
81.5	— 6	16	9	31	+ 1	70.3	63.3	56.7	.59	W. 2	3	Fair	.....	23
85.0	— 3	16	12	31	+ 1	72.0	65.2	52.0	.62	N. W. 2	2 2/3	Clear	.....	24
81.5	— 1	10	14	25	— 5	74.0	69.7	64.3	.72	S. W. 3	6 1/3	Cloudy	.10	25
79.7	+ 3	9	14	26	— 2	73.0	70.5	67.0	.74	S. W. 4	4	Fair	.10	26
80.5	+ 1	10	6	17	+ 5	73.7	70.3	71.7	.74	S. W. 3	4 1/3	Fair	(*)	27
83.5	0	14	14	28	0	73.7	68.0	60.0	.68	S. W. 7	7	Fair	(*)	28
80.5	0	6	8	14	— 2	71.3	65.7	59.7	.63	W. 7	7 2/3	Fair	(*)	29
76.7	— 4	9	8	21	— 3	66.7	59.5	58.3	.51	N. W. 5	5	Fair	.....	30
74.8	+ 9 —98	368	279	754	+68 —68	66.4	60.7	63.0	.546	.....	6.59	.....	3.52	

EXPLANATORY NOTE.—The (*) in "Diseases of heart" column indicates one death from angina pectoris; and in column of "Daily rainfall," that the amount is too small to measure.

In the "mortality" division, classified according to *diseases*, 75.65 per cent. of all the deaths appears. This division might, possibly, have been improved by a classification as to color of decedents. The number of children dying at the age of 7 days and under, are also included in the column of those dying "Under 5 years of age." Under the head of "Malarial fever" are included the number dying of remittent, intermittent, malarial, congestive, pernicious, typho-malarial, and simple continued fevers. Under "Acute diseases of the respiratory organs" are included pneumonia, bronchitis, pleuritis, and congestion of the lungs. Under "Diseases of the nervous system," those cases of convulsions, congestions of the brain, &c., following, or complicated with, diarrhœal diseases, or with any of the different fevers, diphtheria, whooping-cough, &c., are not included. All of these cases are classified under the primary diseases.

The Chief Signal Officer, U. S. A., furnished this office with the following items, under the head of "Meteorological conditions": The daily and monthly mean of barometer and temperature (dry bulb), and humidity; the 7 o'clock a. m., 2 and 9 o'clock p. m. observations of barometer, temperature (both dry and wet bulbs), humidity, direction and force of wind, state of weather and rainfall; the other data were worked out by Dr. Theodore Mead, of this office.

The movements of the barometer are given in inches and decimals of an inch; the signs + and — show rise or fall of barometer and thermometer. The temperature is measured in degrees of the Fahrenheit scale.

The items in the column of "Resultant direction and force of wind" were obtained by platting—using the three daily observations as factors—and these should be read as follows: N. north*erly* and not north; S. south*erly* and not south; NE. northeast*erly* and not northeast, &c. Only when the *mean hourly force* of the wind agrees with the *resultant force*, should the abbreviations be read in the usual manner. On many days each observation indicates a change in direction and force of the wind, and the resultant direction and force only show the distance, in miles and direction, that a particle of air would be from the point of observation, were it acted upon by the united forces and directions of the wind, as ascertained by the three observations, during one hour's time.

To obtain the amount of air passing the point of observation (in this case, Washington), for any particular day, it will be necessary to multiply by 24 the number in the column of the "Mean force of wind per hour."

The items in the column of "State of weather," are, as near as possible, reasonable summaries of the state of weather as made at the three observations for each day.

This table of daily mortality, meteorological conditions, and variations for the past year has been made and published as a partial answer to the query that is so often heard, "What are the relations of meteorological conditions to diseases and deaths?" This table is but a partial answer to but one portion of the question. No attempt is made to show the effects of atmospheric changes on diseases. This could only be done by each physician making a daily record of new cases occurring in his practice, and carefully noting every day the changes that take place in the condition of each of them, and submitting the records so made to a

competent person for tabulation and comparison. If our physicians would do this for one year, the result would undoubtedly be of more than sufficient value to requite them for all their trouble.

It is not claimed that the daily history of one year, such as is given above, will be sufficient to either establish or rebut any one of the numerous theories that have been suggested by different persons who have made this a subject of study. Perhaps a series of such tables as the one above, or still more extended, covering several years, and then comparing month with month and day of month with day of month, would throw some light upon it. It is hardly to be expected that a satisfactory comparison of the meteorological conditions with diseases or death-rates for the month of July can be made with those of January, unless at the same time we take into consideration the different positions of the earth in its orbit around the sun, and the different angles at which the sun's rays impinge upon the surface of the earth at these two seasons. But this, among other things, involves the subject of the influence of the sun's light and heat upon animal life or vitality, a question not yet solved. If this objection holds good as regards the comparing of the two months, July and January, it would also hold good if we attempt to compare any other two different months of the calendar year, or even weeks or days; although, if the times of comparison are near each other, this objection would be less.

Again, it is not held by any one that diseases or death-rates are solely influenced by meteorological conditions or changes. What, then, are these other factors, and what are their values? Are a certain number of diseases affected unfavorably by some particular conjunction of certain atmospheric forces, and favorably by some other? Do similar meteorological conditions have the same effect upon some diseases during one portion of the year and quite a different one at other times? Are certain diseases observed to follow certain degrees of dampness or dryness, of heat or cold, of high or low barometer, of winds blowing with a certain force and temperature, and from a certain direction, or certain observed perturbations of thermometer or barometer, or of any or all of these combined?

These are some of the questions asked by thinkers and students; not one of which can yet be positively answered, and never will be unless the plan above suggested, of carrying the work through a continued series of years, shall give the key.

It is believed that the above table will be found of more than ordinary value, or at least serve as a hint for a better plan. The daily variations of the barometer and temperature, as indicated by the dry bulb, are given for two reasons: first, to test the theory that death rates are influenced by their changes; and, second, in order to have a thorough knowledge of any subject in its entirety it is absolutely necessary to understand all its factors. If this table, or others like it, demonstrates the truth or falsity of any of the theories, or answers any of the questions above referred to, one step, at least, is gained. And whether the fact so demonstrated be positive or negative, it will be of equal value to the unprejudiced searcher for truth.

In examining this table for the purpose of discovering what may be the relation between the variations of temperature and mortality, the attention of the reader is directed to the two months, July and October. The number of deaths in July is 480, the greatest number occurring during any month of the year; the total variations of the temperature are 817 degrees. During the month of October the number of deaths is 251, being less than any other month, with a range of 1001 degrees of

temperature, the greatest of any month of the year. The monthly mean of temperature in July is 78.4, and of October 62.5, a difference of nearly 16 degrees. The range of the daily mean for July was between 73 and 88.7 degrees; of the 93 observations during this month, in but 8 was the temperature below 70; 46 between 70 and 80; 31 between 80 and 90; and 7 above 90. During the month of October the range of the daily mean of the temperature was between 39 and 76.7 degrees; of the 93 observations during this month, 5 were between 30 and 40; 10 between 40 and 50; 21 between 50 and 60; 26 between 60 and 70; 20 between 70 and 80; and 11 above 80.

In examining the *daily* record, as presented by this table, it is not found that the greatest number of deaths always occurs on the days showing the greatest perturbation in the temperature; for on the 11th of July the range of the temperature was 4 8 degrees, the greatest of any day of the month, with but 9 deaths; being 6.5 less than the daily average during the month; while on the 8th the range is but 18 degrees, being 30 less than on the 11th, with 25 deaths, the greatest number occurring on any day in the month, and 9.5 more than the daily average. The movements of the thermometer for these two days show the following: On the 8th there was a resultant rise of 4 degrees, and on the 11th a fall of 12; during the night preceding the 8th it rose 2 degrees; on the night preceding the 11th it fell 6; while the daily means of these two days show but little difference, the means of the wet bulb, dew-point, humidity and vapor tension show considerable variations, but not so great as on the two intervening days; again, on the 8th the mean humidity stands at 76.3, wind SW., with a force of 6 miles an hour, and but .08 of an inch rainfall; while on the 11th the humidity is but 64.3, wind NW., 11 miles per hour, and .71 of an inch of rainfall.

On looking further, we find that on the 27th but 8 deaths occurred, the least of any day of the month; but the meteorological conditions of this day are nearly the same they were on the 8th, the day of the greatest mortality. The following variations, however, are to be noted: The barometer shows a rise of .15 of an inch on the 27th, and a fall of .36 on the 8th; the 8th follows a series of days of nearly normal humidity, with no rainfall, while the 27th is the 5th day of continuous rain, and on the day immediately preceding, viz, the 26th, over 2 inches of rain fell.

It is not, however, the object of this report, at the present stage of the question, to enter into a thorough analysis of this table, or to draw any conclusions from it. The above items are pointed out for the purpose of calling attention to some of the difficulties to be encountered when an attempt is made to draw general conclusions from the limited amount of facts that have, as yet, been furnished on this subject.

SUMMARY REMARKS.

On the 1st of September, 1874, the law went into effect, requiring, in every case of death occurring in the District of Columbia, a certificate from the attending physician, giving name, age, sex, color, cause of death (or, in case of no physician being in attendance, one from the coroner or other person authorized to investigate such cases), to be filed with the then Board of Health, before the deceased could be removed or buried. Since that date all deaths have been so certified, and the files of this office are complete and full as to the mortality of the District. The time so covered is 5 years and 10 months. During this time there have been 24,520 deaths; 12,467 of whites, 12,052 colored, and 1 of female infant, color unknown.

Table 25 shows the number of these decedents by color, sex, ages, and nativities, as well as the percentages of decedents by sex of each color, for each of the several ages, tabulated to total mortality of the sex of each of the nativities and grand totals.

Table 27 shows the number of decedents from specified diseases, by color, sex, nativities, and, in some cases, limited by ages. The reason for limiting some by ages was for the purpose of getting rid of the large numbers of children dying of these diseases, and to better exhibit the relation of nativity to disease. In the case of diarrhœal diseases, none were tabulated under the age of 10 years, as nearly all such would be either from cholera infantum or other intestinal diseases, and but a small proportion were born outside the District; and in the other cases it was for the purpose of getting rid of the diseases incident to childhood, or the sequelæ of such diseases. Their tabulation would have no particular significance other than swelling the numbers, and would, to a certain extent, complicate rather than simplify the result. The table was more particularly arranged for the purpose of showing the diseases of adult life than of childhood.

The numbers set opposite the following diseases, viz, syphilis, insanity and epilepsy, do not indicate the number of deaths occurring from them, but only show the total number of cases reported by the certifying physicians.

Syphilis.—All tabulated did not die of this disease; a few of the colored died of pneumonia—some of diarrhœal diseases. Among the white males 3 were congenital; among the white females, 11 were congenital; among the colored males, 40 were congenital, and among the colored females 22 were congenital.

Insane.—Only a small proportion of these died of their insanity; among the total of 213 white males, but 60 died from this cause; among the total of 53 white females, but 13 died from this cause; among the total of 31 colored males, but 12 died of this disease; among the total of 23 colored females, but 4 died of this disease. Table 30 gives the number, &c., of these insane who died from consumption. By inspection of this table it will be perceived that a large proportion of the white males and colored females die of phthisis; 41 of the white males died of apoplexy or paralysis; one male, white, and one female, white, died of cancer, and 1 of each died of syphilis; 1 male, white, died of diphtheria. Deaths of the insane also occurred from almost all of the tabulated diseases. The social relations of the insane were as follows:

Color and sex.	Unknown.	Married.	Widowers or widows	Single.
White males	25	60	15	113
White females	1	14	12	26
Colored males	1	18	3	9
Colored females	.....	8	9	5

The occupations of the insane were as follows: White males—soldiers, 138; United States Marines, 23; clerks, 7; merchants, 4; laborers, 4; lawyers, 3; landsmen, United States Navy, 3; teachers, 2; butchers, 2; bakers, 2; farmers, 2; and one each, surgeon, translator, fireman, book-binder, captain ordnance, United States Army; gardener, painter, photographer, coal-passer, United States Navy; master, Merchant Marine; plumber, bricklayer, hospital steward, United States Army; plate printer, harper, United States Revenue Cutter Service; apothecary, United States Navy; shoemaker, steamboat captain, hotel keeper, wine merchant, plasterer, broker, carpenter, and shopkeeper.

White females—servants, 4; and one each, music-teacher, dressmaker, midwife, clerk, merchant, teacher. Colored males—laborers, 15; and one each, waiter, soldier, grocer, dairyman, porter, boatman, hackman, barber, driver, and whipmaker. Colored females—servants 6, and cook 1.

Of the total deaths of persons of Irish nativity, 6.75 per cent. were insane, and 13.33 per cent. of German. Nearly every one of the insane of these two nativities were soldiers. One case of insanity, the certificate states, was believed to have been produced by masturbation, and two by syphilis.

Epilepsy.—Of the 50 cases of epilepsy among the white males 31 died of the disease; 26 of them were also insane; in one case the cause is said to have been sunstroke and one came to his death by drowning. Among the 23 white female epileptics, 6 were insane, and but 12 died from the disease direct. The cause of 1 case is said to have been from "injury in childhood," and 1 died from the effects of a burn. Among the 17 colored males, 3 were insane, 14 died of the disease and 1 was drowned. Among the 23 colored females, 4 were insane, 17 died of the disease and 1 died from injury received from falling down stairs.

Under the head of malarial fever are tabulated all cases of remittent, intermittent, malarial, congestive, pernicious, continual and so-called typho-malarial fevers. Alcoholism furnishes but a small percentage of the total deaths; how many cases belonging here have been tabulated under some other head on account of the cause of death having been ascribed to some other disease, by tender-hearted or weak-headed certifying gentlemen, cannot be told. Sunstroke has furnished but few deaths, and nearly all of these during the month of July, 1876.

Aneurisms.—Under this heading are tabulated 45 deaths, 24 of white males, 15 colored males and 6 colored females. No deaths occurred among the white females from this disease. The following are the arteries involved and number of cases of each: Arch of aorta, 18 white males, 6 colored males and 2 colored females, total 26, or 57.78 per cent. of total cases; thoracic aorta, 2 white males and 1 colored male, total 3, or 6.67 per cent. of total cases; abdominal aorta, 2 white males, 1 colored male and 1 colored female, total 4, or 8.89 per cent. of total cases; innominate artery, 1 white male, 2 colored males and 1 colored female, total 4, or 8.89 per. cent of total cases; subclavian artery, 3 colored males, or 6.67 per cent. of the total cases; and 1 each of coronary, pulmonary, femoral, and popliteal arteries, and 1 case of cœliac axis. Of the 26 cases of aneurism of the arch of the aorta, 12 are stated to have terminated life by rupture, 3 by hemorrhage (which probably means rupture), 2 by pressure on the trachea, 2 by exhaustion (?), 2 by asphyxia, 1 by asthemia (?), 1 by pleuritic effusion, right side, and 3 not stated. The following are the occupations of the white male decedents: Clerks 4, soldiers 3, and 1 each of the following: dining-room keeper, saloon-keeper, naval solicitor, officer United States Army, printer, physican, tinner, merchant, bricklayer, tailor, and carpenter. Colored males, 5 laborers and 1 whitewasher. The following are the ages of the white males at the time of their deaths: From 30 to 35 years, 3; 35 to 40, 0; 40 to 50, 5; 45 to 50, 4; 50 to 60, 3; and 1 each 60, 69, and 75 years of age. The 6 colored males were aged as follows: 1 each, 35, 40, 50, 52, 53, and 80 years; the 2 colored females, 1 of 37 the other 39 years. Of the 3 cases of aneurism of the thoracic aorta, 2 cases terminated in death by rupture and 1 by apnœa (?); the ages of the white males were 1 each of 38 and 53 years, the colored male 45 years; 1 white male was a watchman, the other a clerk; the colored male was a driver. Of the 4 cases of aneurism of the abdominal aorta, all terminated fatally by rupture; the 2 white males were aged 32 and 50 years, the colored male 40, and the colored female 32 years;

the occupations of the white males were, 1 a soldier and the other a driver; the colored male was a servant; no occupation given of the colored female. Of the 4 cases of aneurism of the innominate, 2 terminated fatally by asphyxia, 1 by rupture, and one not stated; the age of the white male was 47 years, and his occupation that of a wood turner; the ages of the colored males were 1 of 40 and 1 of 45 years; 1 was a laborer, the other a messenger; the colored female was aged 60, and by occupation a nurse. Of the 3 cases of aneurism of the subclavian, 1 terminated fatally by rupture, 1 by asphyxia, and 1 not stated; the ages of decedents were 30, 46, and 52 years; their occupations, 2 coachmen and 1 clergyman. There has been but one death from each of the following described aneurisms: cœliac axis, male white, age 36 years, occupation engineer, manner of death, "failure of heart action"; pulmonary artery, female colored, aged 65, servant, rupture; coronary artery, male colored, aged 33 years, laborer, "cardiac asthenia"; femoral artery, male colored, aged 45, shoemaker, rupture; popliteal artery, female colored, aged 49, hemorrhage.

Cirrhosis.—Among the diseases classified under the head of diseases of the liver, the following shows the number of cases and nativities of decedents from cirrhosis of the liver: White males, District of Columbia, 3; New England, 1; Middle States, 3; Virginia and Maryland, 5; other parts of the United States, 3; Ireland, 10; Germany, 4; and all other countries, 1; white females, Virginia and Maryland, 4; Ireland and Germany, 1 each. Male, colored, Virginia and Maryland, 3; and same number for colored females, of same nativity.

Hernia.—Among the diseases of the intestines are 26 cases of death from hernia, by color and sex as follows: White males, 8; white females, 8; colored males, 9; and colored females, 1. The following shows the number of deaths and age of decedents from each of the different hernia specified in the certificates: White males, umbilical 1, age 54 years; scrotal 1, age 79; femoral 1, age 50; inguinal 2, ages 20 and 43; undefined 3, ages 40, 58, and 60 years; 2 white females; umbilical 1, age 50; femoral 1, age 44; inguinal 2, ages 40 and 49; undefined 4, ages 38, 42, 44, and 67; (3) colored males, umbilical 2, ages both under 2 months; inguinal 3, ages 43, 60, and 1 a child 1 month old; undefined 4, ages 21, 55, 60, and 65 years; colored female, 1 undefined, aged 37 years. As 12 or nearly one-half of these are undefined, but little satisfactory information may be obtained from comparing the relative frequency of each, or either of them.

Intussusception.—Among the diseases of the intestines there are also 28 cases of intussusception, divided as follows: White males 14, white females 5, colored males 6, colored females 3. The ages of the white males were—1 of 2 days, 6 under 1 year of age, 2 from 5 to 10, and 1 each at 28, 35, 47, 59, and 65 years of age; white females, 3 at 6 months and under, and one each at 36 and 76 years of age; colored males, 1 at 2 months, and 1 each at 6, 19, 25, 26, and 48 years of age; colored females, 1 at 21, and two at 60 years of age.

Diseases of the generative organs.—Of the 37 white females who died of these diseases, 22 were married, 10 single, and 4 widows, and 1 not given. Of the colored females, 13 were married, 8 were single, 5 were widows, and 2 not stated.

Puerperal diseases.—Of the 147 white females who died of these diseases, 139 were married, 5 were single, and 3 were widows; of the 140 colored females, 91 were married, 47 were single, and 2 were widows.

Suicides.—Of the 37 white males who have committed suicide in the District since the 1st of September, 1874, 13 were married, 17 were single,

5 were widowers, and 2 social relation unknown. The methods of taking their own lives were as follows: 16 by gunshot wounds, 6 by hanging, 5 each by cutting of throat and opium, 2 by acconite, and 1 each by incised wound (not otherwise defined), jumping from building, and drowning. Their ages were as follows: Under 20 years of age, 1; 20 to 30, 10; 30 to 40, 10; 40 to 50, 9; 50 to 60, 3; 60 to 70, 2; 70 to 80, 2. Their different occupations were, clerks, 6; soldiers, 3; officers United States Army, shoemakers, and laborers, 2 each, and 1 each, watchmaker, clergyman, restaurant clerk, gambler, druggist, stone-cutter, plate-printer, upholsterer, bricklayer, blacksmith, landsman United States Navy, civil engineer, collector, florist, carpenter, machinist, engineer, barber, and secretary to foreign legation; 4 were stated to have been insane, and 3 committed the act while intoxicated. Of the 9 white females, 4 were married, 3 were single, and 2 were widows. Their ways of committing the act were as follows: Opium, 4; arsenic, 3; gunshot wound, 1; and hanging, 1. Two were 17 years of age, 4 between 20 and 30, 1 of 30, 1 of 45, and 1 of 50 years of age. The occupation of 1 was that of a clerk, 1 merchant, and 1 servant; 1 was insane; 1 said she took the poison to frighten her mother. The 2 colored males were both under 20 years of age, both hung themselves, and both were single.

Dropsies.—No case is tabulated under this head that was a sequence of any other disease; all such cases are classed under their prime cause.

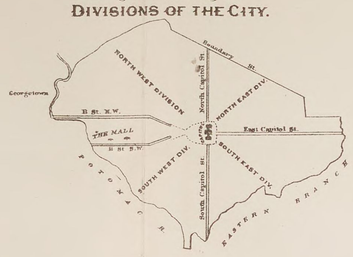
Traumatic tetanus.—There have been 28 deaths from this complication, divided as to color and sex as follows: White males, 10; white females, 2; colored males, 13; and colored females, 3. The injuries and number of cases from each are as follows: Injury to foot by nails, 7; other injuries to foot or toes, 4; amputation of great toe, 1; injuries to hand and fingers, 6; burns, 5; fracture of leg, 2; injury to neck, 1; and 2 from wounds undefined.

Surgical operations.—But 12 deaths are recorded from these causes, as follows: Ovariotomy, female, white, 50 years of age; Cæsarian operation, female, white, 35 years of age; hip-joint amputation, female, colored, 19 years of age; amputation of leg, male, white, 37 years of age; operation for femoral hernia, male, white, 50 years of age; amputation of lower third of thigh, 2 cases—1st, female, colored, age 36; 2d, male, white, age 55; amputation of great toe, male, white, age 21; operation for epithelioma of hip and upper portion of thigh, male, white, age 64; operation of osteosarcoma of leg, male, white, age 19; operation for cancer of nates, male, white, age 18; died from hemorrhage; operation for cataract, male, colored, age 7 months; operation for hare-lip, colored female.

There have been but two cases of hydrophobia during the period covered by these tables; both cases were of white males, one aged 17 years, and the other 4; both from dog-bites. There was one death from overdose of quinine, 54 grains being given; child, male white, aged 3 years; lived one hour. One death occurred from rupture of uterus at seventh month, utero-gestation, female colored, aged 36 years. Two white males and 1 colored were drowned while intoxicated. From Addison's disease 4 deaths have occurred, 3 white males, aged 26, 60, and 67; occupations, clerk, manufacturer of clothing, and plasterer; 2 were married and one single; 1 white female, age 31, widow, tailoress. One case of rupture of vena cava in male, colored, age 61, rupture caused by severe coughing; autopsy, rupture just below diaphragm. One case of death from malignant pustule in female, white, aged 43. One case of glanders, deceased, male, colored, and a hostler. Four cases of opium habit are reported, all of white females, aged 23, 30, 38, and 79 years; 2 cases

Map
of
WASHINGTON and GEORGETOWN

Diagram showing the
DIVISIONS OF THE CITY.



EXPLANATIONS.

Typhoid Fever.	●
Malarial Fever.	×
Scarlet "	●
Diphtheria.	■
Diarrhoeal Diseases.	×

Houses are numbered 100 or less to the Block, thus 625 E St. is bet. 6th & 7th Sts. 1820 Penn. Ave. is bet. 18th & 19th. Lettered. Sts. in the same manner. All numbering commences at the Capitol.

were single, 1 married, and 1 widow. Three cases of idiocy are also reported, 2 of white females; 1 aged two years 6 months, and the other 4 years at death, and 1 female colored, aged 32, and an epileptic. The careless use of opium has been the cause of 19 deaths, 10 of whites and 9 colored. Mrs. Winslow's soothing sirup is charged with the death of 2, one of each color. Hydrate of chloral is also charged with 2 deaths, both white.

Cancer.—The 5 tables, 33 to 37, inclusive, exhibit in detail the ages, sex, color, and percentages of the decedents from this cause. Of the total 404 deaths 90 were of white males, 199 of white females, 23 of colored males, and 92 colored females.

Tables 29 to 32, inclusive, exhibit many interesting points connected with phthisis, and need but little, if any, explanation. By inspecting tables 31 and 32 it can be readily ascertained what the ratio of deaths from this disease to the total deaths of persons of any nativity, and at any one of the specified ages, is. The same fact as regards other diseases may also be ascertained by examining table 27 of this series.

The following summary statement is interesting in showing the average ages of decedents by color and sex for all the decedents since September 1, 1874, and also the percentages of decedents of above certain ages to the total mortality of each color and sex. The error must not be made that the average dying age is the average age of the living population; the latter being nearly double the former.

Color and sex.	Total deaths.	Average ages.	Five years and over.			Twenty years and over.			Forty years and over.		
			Deaths.	Average ages.	Per cent. to total deaths.	Deaths.	Average ages.	Per cent. to total deaths.	Deaths.	Average ages.	Per cent. to total deaths.
White males....	6, 516	28. 17	4, 043	44. 66	62. 05	3, 492	49. 88	53. 60	2, 368	59. 08	36. 34
White females..	5, 951	27. 25	3, 571	44. 66	60. 00	3, 036	50. 65	51. 02	1, 941	62. 41	32. 62
Colored males...	5, 900	17. 06	2, 403	40. 50	40. 73	1, 931	47. 66	32. 73	1, 135	60. 66	19. 24
Colored females.	6, 152	19. 91	2, 956	40. 41	48. 05	2, 305	48. 33	37. 47	1, 282	64. 33	20. 84

TABLE XXV.—*Deaths from September* 1, 1874, *to June* 30, 1880, *inclusive, by ages and nativity.*

Ages of decedents, color, and sex.	District of Columbia.	New England.	Middle States.	West Virginia, Virginia and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries, and unknown.	Totals.	Percentages to total deaths.
Under 5 years of age:											
White, male	2,322	5	26	81	34	.....	1	1	3	2,473	37.95
female	2,228	5	27	83	36	.....	.....	.....	1	2,380	39.99
Colored, male	3,374	1	16	96	10	.....	.....	.....	.....	3,497	59.27
female	3,104	3	6	68	15	.....	.....	.....	.....	3,196	51.95
5 to 10 years:											
White, male	209	2	17	27	18	.....	2	1	.....	276	4.23
female	220	4	9	30	6	.....	1	.....	3	273	4.59
Colored, male	185	3	1	39	3	.....	.....	.....	.....	231	4.92
female	221	1	3	49	6	.....	.....	.....	.....	280	4.55
10 to 20 years:											
White, male	158	6	23	51	18	13	.....	4	2	275	4.23
female	167	3	18	51	11	7	2	4	.....	263	4.42
Colored, male	96	.....	4	134	5	.....	.....	.....	2	241	4.07
female	198	2	3	147	19	.....	.....	.....	2	371	6.03
20 to 30 years:											
White, male	189	17	59	91	34	33	6	28	15	472	7.24
female	244	14	52	136	37	41	8	13	7	552	9.28
Colored, male	74	1	7	328	28	.....	.....	.....	1	439	7,44
female	99	.....	3	443	19	.....	.....	.....	1	565	9.18
30 to 40 years:											
White, male	137	28	106	97	59	114	28	63	20	652	10.01
female	133	17	61	157	30	88	12	29	16	543	9.13
Colored, male	58	2	6	258	32	.....	.....	.....	1	357	6.05
female	73	1	5	360	19	.....	.....	.....	.....	458	7.44
40 to 50 years:											
White, male	97	37	98	117	46	149	29	93	24	690	10.59
female	87	21	46	114	23	90	14	45	8	448	7.53
Colored, male	45	2	2	242	18	.....	.....	.....	2	311	5.27
female	43	.....	2	214	10	.....	.....	.....	.....	269	4.37
50 to 60 years:											
White, male	65	35	74	113	25	127	28	86	21	574	8.81
female	64	18	41	145	17	88	15	29	8	425	7.14
Colored, male	15	1	1	240	16	.....	.....	.....	.....	273	4.63
female	35	.....	.....	208	5	.....	.....	.....	.....	248	4.03

60 to 70 years:											
White, male	47	41	94	142	24	103	25	55	19	550	8.44
female	69	22	44	143	14	82	16	28	4	422	7.09
Colored, male	13	1	.....	181	9	.....	.....	.....	1	205	3.47
female	28	.....	3	201	8	.....	.....	.....	2	242	3.93
70 to 80 years:											
White, male	25	39	55	132	13	66	22	30	10	392	6.01
female	59	18	58	154	9	53	17	35	10	413	6.94
Colored, male	17	.....	.....	174	6	.....	.....	.....	.....	197	3.34
female	16	1	3	239	3	.....	.....	.....	.....	262	4.26
80 to 90 years:											
White, male	3	14	11	52	2	28	14	13	5	142	2.18
female	19	20	15	80	3	37	11	3	3	191	3.21
Colored, male	.....	.....	.....	106	6	.....	.....	.....	.....	112	1.90
female	16	.....	.....	143	3	.....	.....	.....	1	163	2.65
90 to 100 years:											
White, male	.....	4	1	7	1	2	.....	1	1	17	.26
female	2	1	3	18	.....	7	2	2	1	36	.60
Colored, male	3	.....	.....	24	.....	.....	.....	.....	.....	27	.47
female	3	.....	.....	45	1	.....	.....	.....	.....	49	.80
100 years and over:											
White, male	1	.....	.....	.....	.....	2	.....	.....	.....	3	.05
female	.....	.....	.....	.....	.....	5	.....	.....	.....	5	.09
Colored, male	1	.....	.....	9	.....	.....	.....	.....	.....	10	.17
female	1	.....	.....	48	.....	.....	.....	.....	.....	49	.80
Unknown age:											
White, male	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
female	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Colored, male	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
female	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....	.....
Total white males	3,253	228	564	910	274	637	155	375	120	6,516	.....
Total white females	3,292	143	374	1,111	186	498	98	188	61	5,951	.....
Total colored males	3,881	11	37	1,831	133	.....	.....	.....	7	5,900	.....
Total colored females	3,837	8	28	2,165	108	.....	.....	.....	6	6,152	.....

NOTE.—One death of female, color unknown, not in the above table.

TABLE XXVI.—DEATHS.—*Deaths, and average ages at different periods of life, for each month, from September, 1874, to June, 1880, inclusive.*

WHITE MALES.

	All ages.				5 years of age and over.				20 years of age and over.				40 years of age and over.			
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1874.																
September	68	22	10	20	39	39	4	2	32	46	....	1	16	60	4	1
October	91	34	8	15	63	49	9	6	58	52	11	6	44	59	8	11
November	76	30	7	18	51	45	2	14	48	47	3	29	31	57	5	17
December	79	32	4	1	62	40	10	17	56	44	2	18	30	54	4	10
1875.																
January	112	30	2	20	73	45	11	9	66	49	10	18	46	58	8	3
February	91	28	4	8	50	50	6	16	47	54	3	9	31	67	....	23
March	130	28	8	20	86	43	1	18	73	48	7	6	47	57	11	3
April	93	28	9	11	57	46	2	13	49	51	6	9	32	61	9	19
May	71	28	2	15	49	40	4	16	41	46	2	26	24	57	8	27
June	98	19	3	28	45	41	4	10	40	45	....	5	23	56	1	27
July	118	20	3	21	49	47	9	10	46	50	....	24	31	59	4	25
August	118	23	11	23	63	43	11	14	53	50	1	4	33	61	2	24
September	89	25	5	29	50	44	3	26	43	48	11	25	29	58	....	18
October	64	29	2	5	41	44	11	12	34	52	2	....	24	62	3	24
November	78	34	11	25	62	43	8	22	57	46	10	14	35	57	4	9
December	78	36	9	25	56	50	8	18	50	55	4	28	43	59	1	....
1876.																
January	81	34	6	4	63	44	1	13	56	48	1	7	37	57	6	4
February	89	30	1	3	57	46	4	11	52	49	8	23	35	59	....	6
March	109	31	1	18	74	45	4	23	66	49	....	2	40	60	10	13
April	77	34	10	6	55	48	5	11	52	50	8	22	35	60	5	5
May	70	27	4	29	41	46	....	13	35	52	5	2	24	60	1	9
June	137	15	2	12	49	41	3	24	44	44	10	18	23	58	9	16
July	155	24	1	2	86	42	9	9	71	48	5	13	45	58	11	17
August	114	23	2	27	56	46	5	6	49	51	5	10	33	62	3	11
September	89	23	2	2	46	44	2	14	40	49	2	7	25	60	4	26
October	83	35	1	7	62	46	6	16	57	49	7	5	43	56	4	2
November	69	31	....	28	46	45	7	26	42	49	3	18	28	59	6	6
December	89	37	1	6	70	46	10	17	60	53	1	4	47	59	8	28
1877.																
January	95	30	1	4	63	44	10	3	57	48	3	19	36	59	8	18
February	88	30	11	16	61	44	4	5	52	50	8	14	34	61	5	26
March	107	26	1	1	66	41	5	29	58	45	7	26	33	58	10	17
April	61	35	10	13	45	48	2	14	40	53	1	24	27	62	10	1
May	89	37	....	1	69	47	4	1	61	51	11	9	47	58	3	15
June	110	23	4	18	55	45	11	16	46	52	5	27	34	60	4	2
July	101	20	4	12	41	48	10	20	39	50	7	18	27	58	8	24
August	113	23	1	26	58	44	2	20	48	51	9	21	33	60	11	7
September	80	25	5	12	55	36	4	3	45	42	2	11	21	56	1	3
October	93	25	4	13	61	37	9	11	45	47	1	14	30	55	11	11
November	89	29	6	9	63	41	2	7	51	48	7	23	36	57	1	1
December	80	32	....	3	60	42	2	11	51	47	6	12	34	57	2	21
1878.																
January	93	30	7	14	66	42	7	7	57	47	10	18	38	56	6	3
February	83	29	11	21	55	44	9	16	46	51	4	29	32	60	4	25
March	106	30	10	13	72	44	11	17	60	51	4	16	42	58	10	18
April	72	29	5	2	53	39	5	25	45	44	6	20	26	55	3	25
May	95	21	3	3	46	43	....	6	36	51	11	28	26	60	8	14
June	118	20	11	13	53	45	4	19	45	51	8	2	35	58	5	15
July	105	17	1	15	48	36	2	26	37	43	11	27	20	56	7	21
August	93	22	7	25	51	40	2	1	41	47	7	25	26	58	4	23
September	73	28	8	10	48	43	....	28	40	49	8	12	26	59	7	1
October	89	29	6	18	65	39	11	9	50	48	5	9	35	55	8	....
November	85	32	2	7	62	43	8	19	50	51	6	20	35	61	1	23
December	96	26	10	16	63	40	4	4	50	47	7	18	29	60	6	23
1879.																
January	124	31	2	9	84	45	5	1	63	54	9	6	57	57	5	27
February	89	32	3	27	63	44	1	3	51	50	7	5	37	58	5	2
March	97	22	1	25	50	41	10	21	41	48	10	29	28	56	5	12
April	83	27	9	13	53	43	1	21	43	50	11	10	30	58	1	10
May	74	28	4	7	45	45	11	6	37	52	7	27	30	57	1	11
June	122	21	3	29	57	44	8	18	49	50	2	20	31	60	3	23
July	123	18	11	9	51	44	6	14	45	49	1	22	29	57	3	2
August	98	28	9	18	60	46	5	20	52	51	10	19	37	61	8	15
September	90	31	6	4	62	45	5	25	54	50	9	7	38	59	1	5

TABLE XXVI.—DEATHS.—*Deaths and average ages, &c.*—Continued.

WHITE MALES—Continued.

	All ages.				5 years of age and over.				20 years of age and over.				40 years of age and over.			
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1879.																
ber	70	35	8	28	51	48	9	10	45	53	4	5	36	58	8	29
ember	79	28	4	11	54	41	....	28	47	45	4	15	32	53	7	22
ember	82	36	7	8	63	47	5	26	56	51	2	23	39	59	11	1
1880.																
uary	93	32	8	6	62	48	4	6	56	52	2	23	39	61	10	11
ruary	95	32	10	6	65	47	6	29	61	49	10	20	41	59	5	12
ch	83	37	6	29	62	49	11	2	58	52	3	20	43	58	11	18
il	88	43	2	26	73	51	11	22	70	53	10	27	52	61	10	13
	85	29	3	18	52	47	6	11	46	52	5	5	34	59	9	8
	111	25	5	19	56	49	10	11	51	53	10	5	39	60	7	20
Total	6,516	28	1	7	4,043	44	8	....	3,492	49	10	22	2,368	59	....	24

WHITE FEMALES.

1879.																
ember	66	25	10	15	40	42	3	17	35	46	3	9	18	63	9	18
ber	81	30	9	4	54	45	7	12	49	48	8	18	31	59	2	1
ember	59	31	9	9	37	50	2	10	34	53	7	21	23	65	10	15
mber	63	34	11	15	42	51	5	26	39	56	3	7	27	65	11	27
1875.																
ary	99	30	10	1	66	45	7	2	59	49	9	23	37	62	9	27
uary	84	21	3	27	41	42	5	18	35	47	4	14	20	62	4	21
h	109	27	8	13	68	43	6	27	56	50	2	24	35	63	1	4
l	81	28	5	6	55	41	3	16	49	44	9	7	26	60	6	24
	75	27	2	18	48	42	1	8	45	44	2	24	21	61	6	24
	113	20	7	25	50	46	....	8	47	47	8	20	26	61	6	20
	107	15	7	7	42	38	8	22	30	48	8	27	18	60	4	23
ust	110	13	11	25	34	43	3	8	28	49	10	24	17	63	8	4
mber	73	21	5	17	39	39	1	15	31	45	11	21	16	61	9	26
ber	83	26	2	26	54	39	6	15	42	47	4	27	21	65	1	20
mber	66	27	2	16	44	40	4	5	35	48	3	19	24	56	3	13
mber	70	35	1	19	52	46	11	17	46	51	9	....	31	62	....	12
1876.																
ary	80	34	8	7	55	49	9	23	50	53	10	1	37	61	3	6
uary	58	28	5	29	40	40	9	5	32	48	6	6	21	57	1	12
h	83	31	9	16	55	47	2	22	50	50	5	10	29	64	5	5
	66	36	5	5	49	48	9	20	44	52	7	13	34	58	10	....
	71	33	10	9	51	46	10	....	43	53	1	4	29	64	7	11
	115	16	9	15	42	44	9	13	36	50	3	23	22	63	5	1
	143	22	....	8	66	46	10	24	58	51	11	14	36	64	9	1
ust	94	14	1	25	31	40	9	8	21	53	4	....	14	66	5	29
mber	84	28	11	2	50	47	11	6	43	53	5	21	30	61	11	7
ber	81	29	3	3	54	43	2	24	48	47	....	28	27	61	7	18
mber	64	29	11	10	48	39	2	25	39	46	1	12	22	59	....	11
mber	78	35	7	18	55	49	8	23	49	54	5	14	36	63	11	18
1877.																
ary	87	29	7	5	51	49	5	25	45	54	5	11	30	66	2	15
uary	86	34	5	22	61	48	2	5	56	51	7	....	37	63	3	1
h	93	34	3	22	65	48	8	10	58	53	3	25	39	65	5	24
	86	25	2	27	59	36	4	9	45	44	9	1	27	54	....	15
	67	27	7	27	46	39	8	....	32	52	6	26	24	60	2	18
	78	19	6	23	35	42	6	3	28	50	....	28	17	65	3	26
	124	18	....	28	50	43	....	8	41	50	7	28	29	59	8	2
st	95	29	....	26	54	50	3	19	46	57	2	11	35	66	3	1
mber	82	27	9	9	50	44	6	11	41	51	9	....	26	63	7	18
er	88	27	8	....	56	42	5	29	46	49	4	6	27	63	4	8
nber	65	24	10	11	43	36	9	....	34	44	....	10	17	57	3	8
aber	77	27	7	23	59	35	5	17	41	46	10	21	24	61	....	20
1878.																
ry	85	32	9	22	63	43	11	14	49	53	5	14	33	64	6	3
ary	75	35	3	2	57	45	11	17	52	49	6	6	31	64	2	11
t	92	29	9	6	59	45	7	28	61	51	6	7	37	60	4	14
	73	32	4	17	52	44	11	18	45	50	5	14	30	61	11	14

TABLE XXVI.—DEATHS.—*Deaths and average ages, &c.*—Continued.

WHITE FEMALES—Continued.

	All ages.				5 years of age and over.				20 years of age and over.				40 years of age and over.			
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1878.																
May	96	30	4	26	59	48	11	8	55	51	10	2	37	62	11	25
June	92	25	8	16	51	45	6	17	40	54	3	3	28	65	5	13
July	117	25	3	29	59	48	11	11	53	53	6	18	36	64	6	14
August	108	20	2	19	53	40	2	4	46	44	8	6	23	59	9	11
September	83	24	6	14	45	44	1	17	43	45	10	16	23	60	....	6
October	96	29	....	23	66	41	8	6	51	50	9	19	35	60	7	23
November	70	33	6	5	56	41	5	21	43	50	....	22	31	57	11	15
December	73	23	6	24	50	33	7	....	34	45	2	22	18	59	4	1
1879.																
January	88	35	11	13	61	51	2	14	53	57	1	24	40	65	3	19
February	72	25	1	13	43	40	10	29	34	49	2	2	19	64	....	3
March	83	28	....	4	52	44	6	7	47	48	5	....	27	60	9	23
April	93	25	11	4	66	36	1	1	47	46	9	2	27	60	4	21
May	74	33	11	7	53	47	....	14	48	50	9	16	32	59	9	2
June	109	17	9	1	43	43	10	15	36	50	1	1	23	62	6	28
July	126	21	1	24	54	48	4	29	47	53	5	26	30	66	6	9
August	84	20	11	27	38	45	4	23	33	50	2	22	19	65	6	18
September	65	32	1	25	41	51	5	8	35	58	2	26	32	61	3	8
October	59	38	3	26	49	45	10	14	43	51	2	3	28	62	10	20
November	67	35	11	28	46	51	8	24	43	54	4	25	29	65	8	4
December	80	31	1	9	55	44	7	23	46	50	7	12	26	65	4	4
1880.																
January	75	28	11	22	47	45	9	10	42	50	1	7	29	59	6	4
February	98	34	7	14	68	49	6	18	59	55	3	17	42	65	1	21
March	72	33	2	15	48	49	2	26	45	51	7	27	32	61	7	6
April	72	31	2	14	47	47	2	21	45	48	11	1	23	67	6	18
May	80	26	1	3	50	41	3	12	44	46	5	17	27	57	4	27
June	110	22	9	10	49	50	1	12	47	51	8	6	34	60	11	22
Total	5, 951	27	2	26	3, 571	44	8	5	3, 036	50	7	17	1, 941	62	5	3

COLORED MALES.

1874.																
September	76	13	2	17	24	39	4	4	21	43	4	18	11	57	6	16
October	71	20	....	23	29	47	11	4	24	55	9	....	16	69	7	15
November	59	17	4	5	29	34	9	18	24	38	9	....	7	60	5	4
December	50	25	3	26	28	44	9	10	23	52	1	29	15	65	11	14
1875.																
January	85	19	2	24	39	40	9	25	34	44	11	21	18	59	6	20
February	108	19	1	11	50	40	5	1	41	44	9	26	19	63	8	25
March	103	19	2	18	46	41	7	16	38	48	5	6	21	63	6	26
April	83	19	4	18	42	37	2	21	33	44	10	2	16	64	3	....
May	79	21	1	25	40	40	8	11	29	52	3	16	20	62	2	4
June	105	15	1	4	31	49	4	1	26	55	2	18	17	68	....	21
July	86	9	6	4	23	33	....	24	15	45	8	26	10	56	2	15
August	103	11	10	28	31	37	1	19	22	44	4	25	12	59	2	....
September	94	10	1	27	30	29	4	18	20	39	1	26	8	56	6	..
October	84	14	4	5	32	36	4	26	26	41	9	7	12	53	10	..
November	56	22	9	2	30	41	11	12	23	52	3	20	16	63	9	22
December	89	20	5	29	41	43	5	23	36	48	3	26	21	63	1	20
1876.																
January	62	23	4	17	27	52	6	2	24	57	7	25	20	63	7	8
February	77	19	2	25	43	33	9	28	36	38	5	8	10	60	4	9
March	94	17	8	24	37	43	9	27	30	51	3	5	17	68	2	3
April	75	20	8	20	36	41	9	14	30	48	5	7	20	58	3	16
May	64	20	7	23	32	40	2	27	29	43	1	4	13	57	6	14
June	124	12	6	11	35	42	10	8	30	47	11	5	16	62	11	7
July	132	15	9	19	49	41	2	18	39	48	4	26	22	64	1	21
August	93	15	1	10	32	42	....	22	26	48	6	3	17	55	7	10
September	86	17	....	18	37	38	3	27	28	46	11	11	19	55	3	24
October	92	18	10	6	36	46	3	2	32	50	2	2	23	59	3	20
November	49	17	3	25	22	37	4	2	19	41	9	1	9	56	4	....
December	58	17	10	10	24	42	3	5	19	50	5	21	9	70	8	....

TABLE XXVI.—DEATHS.—*Deaths and average ages, &c.*—Continued.

COLORED MALES—Continued.

	All ages.				5 years of age and over.				20 years of age and over.				40 years of age and over.			
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1877.																
January	77	22	1	17	40	41	8	13	35	46	1	22	20	58	7	24
February	75	16	8	8	29	41	2	28	22	51	4	4	16	59	1	15
March	92	16	8	4	41	36	2	27	29	47	9	28	20	57	4	8
April	74	23	8	20	34	50	5	20	29	56	7	14	22	66	3	25
May	62	17	2	27	30	34	10	12	21	45	5	4	9	68	5	10
June	100	18	9	8	43	42	8	28	38	47	3	....	20	63	1	28
July	112	11	....	18	26	44	3	27	21	52	1	28	16	59	3	9
August	104	14	3	18	42	33	10	14	29	44	....	1	15	59	4	6
September	69	11	10	2	26	29	7	19	16	42	9	29	8	57	7	15
October	64	14	9	23	27	33	6	5	18	45	10	13	10	61	7	9
November	57	19	7	22	27	40	1	18	20	50	....	18	14	58	10	9
December	71	16	9	16	33	35	....	8	24	43	2	....	12	58	9	27
1878.																
January	80	20	4	5	38	41	11	3	35	44	9	10	21	55	4	4
February	66	15	3	1	22	43	....	6	18	50	6	29	12	60	10	13
March	80	24	7	27	45	43	....	16	37	49	8	6	28	56	10	22
April	95	23	1	23	46	46	9	6	38	54	8	29	27	63	8	13
May	87	12	10	12	25	42	6	12	22	47	3	17	13	60	7	17
June	122	14	2	26	37	45	2	9	33	49	5	....	21	60	9	7
July	109	14	1	24	30	48	8	1	23	59	8	26	17	69	7	2
August	107	11	....	22	36	31	4	9	25	40	11	5	11	58	2	5
September	77	14	5	27	33	32	....	20	23	42	1	9	12	55	1	....
October	70	19	6	25	35	38	4	5	23	52	5	1	16	63	....	22
November	69	18	11	....	28	45	8	16	25	50	6	14	18	60	4	9
December	83	21	3	14	42	41	3	1	37	44	8	17	19	57	11	14
1879.																
January	78	20	3	22	30	51	2	14	24	62	....	7	18	72	4	29
February	85	21	6	23	45	39	11	27	38	45	7	22	24	52	5	....
March	106	16	5	27	42	39	11	4	34	46	10	15	21	57	5	....
April	86	24	3	15	48	42	7	17	43	46	4	8	25	58	11	26
May	78	19	....	16	32	44	1	9	25	53	3	14	17	65	3	18
June	103	12	5	18	29	42	3	27	24	48	11	3	13	65	6	14
July	124	13	11	13	41	40	8	18	30	50	11	24	21	60	6	26
August	98	11	1	6	29	35	9	23	20	46	10	18	13	55	10	23
September	86	20	6	21	41	42	5	24	35	47	6	21	23	57	1	17
October	56	16	8	....	21	43	3	1	15	54	9	27	10	67	7	19
November	56	22	5	7	27	45	9	1	23	51	1	2	17	58	7	29
December	70	16	9	6	31	36	11	7	25	43	....	14	13	56	3	21
1880.																
January	77	17	9	2	38	34	5	5	31	40	9	12	15	51	11	25
February	80	17	....	5	30	43	7	3	27	47	3	....	16	59	....	16
March	104	18	1	....	48	37	11	28	41	42	4	24	19	57	7	4
April	84	14	8	2	34	34	11	28	27	41	9	11	11	60	9	24
May	82	15	2	27	32	37	8	7	25	45	1	29	13	58	2	....
June	108	12	2	29	35	37	11	8	26	46	11	14	15	59	8	....
Total	5,900	17	....	16	2,403	40	5	29	1,931	47	7	27	1,135	60	8	17

COLORED FEMALES.

1874.																
September	68	16	9	6	28	39	4	8	20	49	8	1	16	54	3	....
October	63	24	1	27	36	41	6	10	32	45	5	27	16	61	4	28
November	73	23	5	12	39	43	1	5	32	49	9	3	18	66	1	5
December	71	26	10	17	43	43	9	19	38	47	10	16	19	65	3	28
1875.																
January	102	22	3	....	55	40	7	28	42	49	5	22	21	70	1	4
February	99	20	6	8	42	46	9	27	32	57	8	16	24	66	1	12
March	91	16	8	18	34	42	3	11	27	48	5	7	15	65	8	24
April	85	20	5	20	43	39	4	2	29	52	4	12	17	70	6	3
May	78	23	11	....	44	41	2	2	33	50	5	25	20	64	10	27
June	115	13	1	3	42	37	1	19	27	49	4	13	16	65	3	22
July	115	13	4	28	35	42	1	16	26	51	7	5	19	59	9	14
August	114	14	2	15	37	43	....	14	27	51	11	1	14	74	9	22
September	101	15	8	24	41	37	6	11	32	45	9	14	19	59	3	18

TABLE XXVI.—DEATHS.—*Deaths and average ages, &c.*—Continued.

COLORED FEMALES—Continued.

	All ages.				5 years of age and over.				20 years of age and over.				40 years of age and over.			
	Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.			Total deaths.	Average ages.		
		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.		Years.	Months.	Days.
1875.																
October	86	25	6	6	49	43	10	7	41	49	3	29	26	61	4	25
November	86	18	4	1	45	33	11	19	32	43	5	21	15	58	3	6
December	56	22	6	12	29	42	5	27	22	50	11	17	15	62	3	11
1876.																
January	74	25	10	15	40	47	....	....	31	57	....	4	21	71	....	5
February	86	16	3	23	38	35	7	18	28	43	9	23	12	62	10	26
March	79	20	1	8	39	39	5	26	35	42	1	26	16	59	7	15
April	78	20	1	14	40	38	1	4	31	45	6	6	17	62	3	16
May	74	15	3	7	32	34	3	18	23	42	1	1	11	57	4	11
June	115	15	8	25	43	40	10	25	37	45	8	6	19	59	10	22
July	137	15	7	12	51	40	10	4	43	46	1	7	24	61	10	....
August	95	15	4	26	42	33	6	14	32	40	4	16	14	56	8	21
September	90	17	6	2	39	38	9	25	28	49	2	21	15	67	7	6
October	74	22	8	28	37	44	9	2	29	53	....	8	19	65	....	19
November	68	21	1	13	43	33	....	24	29	42	8	8	13	61	4	18
December	78	24	4	19	43	43	9	11	33	52	7	18	19	71	7	17
1877.																
January	68	24	....	7	42	38	3	8	27	52	4	....	17	67	4	13
February	99	18	4	8	45	39	2	....	29	53	5	5	16	72	7	15
March	75	27	5	14	44	46	1	1	34	57	2	23	23	71	3	20
April	70	25	7	11	41	42	10	12	33	50	10	21	18	69	2	17
May	69	28	8	2	46	42	7	3	41	46	7	3	24	58	11	....
June	101	17	11	25	45	39	2	23	38	44	6	5	19	62	9	9
July	142	17	3	21	59	40	9	12	47	48	....	18	26	63	10	11
August	105	16	6	21	41	40	10	....	28	53	7	17	17	64	2	26
September	85	23	1	18	48	40	2	9	37	48	3	8	21	62	2	16
October	88	23	7	13	57	35	10	19	41	45	6	1	19	64	9	7
November	73	19	4	16	35	39	2	23	24	52	8	3	15	67	3	15
December	74	19	7	18	38	37	1	9	27	46	8	13	14	62	10	9
1878.																
January	85	15	5	11	39	32	2	25	25	44	7	27	13	61	....	....
February	62	23	1	12	36	38	10	12	28	47	2	13	16	62	6	6
March	68	21	6	25	33	43	....	22	25	53	3	25	19	62	4	2
April	79	17	9	11	37	36	9	24	24	50	2	15	15	65	5	18
May	96	15	....	26	35	39	4	24	30	43	10	9	15	61	8	5
June	104	18	8	24	46	41	2	16	38	47	1	29	18	65	11	7
July	142	15	8	7	53	40	4	10	46	44	7	19	22	63	7	8
August	117	22	6	3	52	49	7	23	47	53	4	15	26	72	6	14
September	70	21	11	8	41	36	7	23	32	43	5	25	15	61	....	24
October	76	26	10	7	45	44	7	8	37	51	10	21	25	60	7	6
November	72	26	6	20	41	45	8	13	34	53	7	16	22	66	8	9
December	69	33	7	22	47	48	11	8	43	52	10	11	27	67	11	29
1879.																
January	84	20	5	11	42	39	10	16	35	45	5	....	17	63	1	12
February	89	18	1	1	39	39	11	25	31	47	3	26	17	62	6	11
March	91	19	6	1	45	38	....	15	32	48	11	14	18	64	9	27
April	72	18	9	14	34	38	6	10	28	44	11	3	13	62	1	8
May	70	15	5	18	39	26	10	4	22	40	3	8	7	60	8	4
June	110	17	3	5	45	41	5	29	37	47	6	26	21	61	1	...
July	118	16	7	19	49	38	11	4	38	47	6	25	21	63	3	29
August	81	20	3	13	39	41	1	27	33	46	7	6	20	57	1	20
September	85	17	6	28	37	39	6	20	34	42	....	17	17	57	10	18
October	71	21	3	29	38	39	2	11	30	46	8	12	16	61	11	3
November	75	24	9	22	44	41	8	8	39	45	10	14	21	60	5	21
December	82	30	1	12	53	46	....	4	43	54	2	13	30	64	10	24
1880.																
January	78	17	8	9	39	34	4	3	25	44	9	29	14	57	11	24
February	100	22	9	17	53	41	10	15	44	48	2	19	21	69	6	26
March	95	20	11	22	44	43	11	17	35	53	....	12	21	68	5	4
April	81	21	9	28	41	42	1	2	34	46	9	4	16	72	4	17
May	100	20	2	28	54	36	8	25	46	41	4	21	15	69	8	....
June	130	15	9	22	46	43	5	21	33	53	11	8	25	64	1	28
Total	6,152	19	11	....	2,956	40	4	26	2,305	48	4	4	1,282	64	3	29

TABLE XXVII.—DEATHS.—*Deaths from principal diseases, September* 1, 1874, *to June* 30, 1880.

Diseases, ages, color, and sex.		District of Columbia.	New England.	Middle States.	West Virginia, Virginia, and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries, and unknown.	Totals.
Tubercular, other than phthisis pulmonalis:											
5 years and over, white	male	28	....	6	8	6	9	4	4	1	66
	female	27	3	9	16	5	5	2	....	3	70
5 years and over, colored	male	37	....	....	34	2	....	....	....	1	74
	female	31	....	....	26	3	....	....	....	....	60
Diarrhœal diseases:											
10 years and over, white	male	13	8	15	28	9	26	5	13	3	120
	female	29	3	9	40	3	19	5	6	2	116
10 years and over, colored	male	4	....	....	53	3	....	....	....	....	60
	female	12	1	....	43	3	....	....	....	1	60
Typhoid fever:											
All ages, white	male	66	5	11	35	10	10	1	15	2	155
	female	69	4	13	29	7	16	5	12	3	158
All ages, colored	male	39	1	2	61	....	....	....	....	....	103
	female	37	1	....	51	4	....	....	....	1	94
Malarial fever:											
All ages, white	male	64	8	16	13	4	9	5	10	4	133
	female	48	3	5	19	4	15	3	....	1	98
All ages, colored	male	54	....	2	40	1	....	....	....	....	97
	female	65	....	....	41	1	....	....	....	....	107
Syphilis:											
All ages, white	male	7	....	3	2	2	5	....	....	....	19
	female	12	....	....	3	1	....	....	....	1	17
All ages, colored	male	40	....	1	13	1	....	....	....	....	55
	female	24	....	....	4	3	....	....	....	....	31
Alcoholism:											
All ages, white	male	10	1	4	9	2	25	2	9	2	64
	female	2	....	....	5	....	6	....	1	4	18
All ages, colored	male	3	....	....	11	1	....	....	....	....	15
	female	2	....	....	3	....	....	....	....	....	5
Apoplexy, paralysis, and softening of brain:											
All ages, white	male	35	27	49	83	12	42	18	30	17	313
	female	26	16	26	79	7	41	8	21	4	228
All ages, colored	male	17	....	....	110	9	....	....	....	....	139
	female	26	....	3	154	6	....	....	....	....	189
Sunstroke:											
All ages, white	male	5	1	2	2	1	5	....	5	1	22
	female	2	1	....	....	....	2	....	2	....	7
All ages, colored	male	1	....	....	4	1	....	....	....	....	6
	female	....	....	....	4	....	....	....	....	....	4
Acute diseases of nervous system:											
10 years and over, white	male	15	9	12	24	6	14	8	6	1	95
	female	21	2	11	21	3	7	2	1	1	69
10 years and over, colored	male	6	....	1	34	3	....	....	....	....	44
	female	18	....	....	31	....	....	....	....	....	49
Insanity:											
All ages, white	male	11	20	33	9	26	43	7	50	14	213
	female	11	2	8	11	4	6	3	7	1	53
All ages, colored	male	5	....	....	22	4	....	....	....	....	31
	female	6	....	....	16	1	....	....	....	....	23
Rheumatism, including heart complications:											
All ages, white	male	17	2	11	11	1	8	2	7	1	60
	female	21	2	3	17	2	5	1	3	....	54
All ages, colored	male	10	....	....	31	2	....	....	....	....	43
	female	7	....	1	30	2	....	....	....	....	40
Diseases of heart, its membranes and valves:											
All ages, white	male	52	16	35	50	12	38	5	20	6	234
	female	42	11	29	60	3	29	3	13	5	195
All ages, colored	male	24	....	2	105	4	....	....	....	1	136
	female	24	....	1	121	3	....	....	....	....	149
Aneurisms:											
All ages, white	male	3	3	5	4	1	3	2	2	1	24
	female	....	....	....	....	....	....	....	....	....	.....
All ages, colored	male	3	....	....	11	....	....	....	....	1	15
	female	....	....	....	5	1	....	....	....	....	6
Angina pectoris:											
All ages, white	male	2	1	7	8	2	1	....	2	....	23
	female	1	....	1	3	....	1	1	1	....	8
All ages colored	male	....	....	....	4	1	....	....	....	....	5
	female	....	....	....	7	....	....	....	....	....	

TABLE XXVII.—DEATHS.—*Deaths from principal diseases, &c.*—Continued.

Diseases, ages, color, and sex.		District of Columbia.	New England.	Middle States.	West Virginia, Virginia, and Maryland.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries, and unknown.	Totals.
Pneumonia and bronchitis:											
5 years and over, white	male	63	24	42	75	11	54	20	30	7	326
	female	61	13	34	93	9	43	13	19	2	287
5 years and over, colored	male	42	....	5	170	10	....	....	....	1	228
	female	56	....	1	138	7	....	....	....	1	203
Diseases of stomach:											
10 years and over, white	male	10	2	6	15	4	11	5	7	....	60
	female	9	1	4	13	....	10	3	4	1	45
10 years and over, colored	male	2	2	....	14	1	....	....	....	....	19
	female	1	1	....	18	....	....	....	....	....	20
Diseases of liver:											
10 years and over, white	male	12	4	14	25	4	17	2	14	....	92
	female	12	1	4	17	....	10	1	3	....	48
10 years and over, colored	male	3	....	1	18	....	....	....	....	....	22
	female	3	....	....	14	....	....	....	....	....	17
Diseases of intestines:											
10 years and over, white	male	30	1	6	16	5	12	4	12	3	89
	female	9	3	11	12	6	12	6	7	2	68
10 years and over, colored	male	5	....	....	29	1	....	....	....	....	35
	female	3	....	2	34	1	....	....	....	....	40
Diseases of urinary organs:											
10 years and over, white	male	29	17	21	28	10	28	8	16	2	159
	female	17	5	7	15	2	10	3	3	....	62
10 years and over, colored	male	15	....	1	46	5	....	....	....	....	67
	female	9	....	1	45	....	....	....	....	....	55
Diseases of generative organs:											
All ages, white	male	....	....	....	1	....	2	....	1	.	4
	female	9	1	7	8	2	6	....	4	....	37
All ages, colored	male	....	....	....	1	1	....	....	....	....	2
	female	6	....	2	20	....	....	....	....	....	28
Puerperal diseases:											
All ages, white	male	....	....	....	....	....	....	....	....	....	.....
	female	52	5	12	41	7	20	1	9	....	147
All ages, colored	male	....	....	....	....	....	....	....	....	....	.....
	female	22	....	....	115	3	....	....	....	....	140
Suicides:											
All ages, white	male	5	2	6	3	5	2	1	9	4	37
	female	3	....	1	1	1	....	....	2	1	9
All ages, colored	male	1	....	....	1	....	....	....	....	....	2
	female	....	....	....	.....	....	....	....	....	....	.....
Dropsies:											
10 years and over, white	male	8	....	4	8	1	3	....	5	1	30
	female	8	3	3	6	1	3	5	3	....	32
10 years and over, colored	male	3	....	....	21	1	....	....	....	...	25
	female	8	....	....	25	1	....	....	....	....	34
Epilepsy:											
All ages, white	male	10	1	10	6	11	6	2	4	....	50
	female	7	....	2	10	2	1	1	....	....	23
All ages, colored	male	5	....	....	9	2	....	....	....	1	17
	female	5	....	....	15	3	....	....	....	....	23

TABLE XXVIII.—*Social or conjugal relations of decedents from September* 1, 1874, *to June* 30, 1880.

Social relation, color, and sex.	Ages in years.									Totals.	Percentage of each to grand total of each.
	20 to 30	30 to 40	40 to 50	50 to 60	60 to 70	70 to 80	80 to 90	90 to 100	100 and over.		
Married:											
White, male	108	346	454	391	363	212	44	8	.....	1,926	55.16
female	298	377	286	206	130	44	6	15	.....	1,362	44.87
Colored, male	118	211	229	208	146	129	51	14	4	1,110	57.48
female	265	316	139	110	74	39	21	.....	.....	964	41.82
Widowers and widows:											
White, male	6	16	56	70	121	138	84	7	3	501	14.35
female	17	66	116	181	241	308	155	18	5	1,107	36.47
Colored, male	10	32	23	35	36	50	57	12	6	261	13.52
female	22	71	103	117	139	210	137	49	46	894	38.79
Single:											
White, male	345	267	155	92	58	36	12	2	.....	967	27.69
female	236	98	44	37	49	59	28	3	.....	554	18.25
Colored, male	307	104	49	25	15	12	3	1	.....	516	26.72
female	277	63	25	18	22	9	5	.....	1	420	18.22
Unknown:											
White, male	13	23	25	21	8	6	2	.....	.....	98	2.81
female	1	2	2	1	2	2	2	.....	.....	12	.40
Colored, male	4	10	10	5	8	6	1	.....	.....	44	2.28
female	1	8	2	3	7	4	.....	.....	2	27	1.17
Grand totals:											
White, male	472	652	690	574	550	392	142	17	3	3,492	100.
female	552	543	448	425	422	413	191	36	5	3,035	100.
Colored, male	439	357	311	273	205	197	112	27	10	1,931	100.
female	565	458	269	248	242	262	163	49	49	2,305	100.

TABLE XXIX.—*Duration of certain diseases terminating fatally, and number dying at or during certain periods, together with the percentages of the number dying of the particular disease, at such specified periods, to the total number of which the duration of the disease is given by the certifying physician, September* 1, 1874, *to June* 30, 1880, *inclusive.*

	Scarlet fever.		Diphtheria.		Pneumonia.			Typhoid fever.			Phthisis pulmonalis.		
	White.	Colored.	White.	Colored.	Duration of disease.	White.	Colored.	Duration of disease.	White.	Colored.	Duration of disease.	White.	Colored.
Total number of deaths of which the duration of the disease is given.	393	84	238	119		937	1,370		428	294		1,766	1,975
Number dying on or before the 3d day.	100	21	42	11	On or before 4th day..	146	147	On or before 10th day..	61	32	3 months and under.	275	386
....Percentages	25.44	25.00	17.65	9.24		15.58	10.73		14.25	10.89		15.57	19.54
Number dying on 4th day	48	3	28	9	5th day	66	66	11th to 15th days, inclusive.	81	61	3 to 6 months	325	523
Percentages	12.21	3.57	11.76	7.56		7.04	4.82		18.92	20.75		18.40	26.48
Number dying on 5th day	29	6	38	6	6th day	63	66	16th to 21st days, inclusive.	79	45	6 to 9 months	310	417
Percentages	7.38	7.14	15.97	5.04		6.72	4.82		18.46	15.31		17.55	21.11
Number dying on 6th day	31	3	34	3	7th day	141	220	22d to 28th days, inclusive.	28	27	9 to 12 months	130	128
Percentages	7.89	3.57	14.29	2.52		15.05	16.06		6.54	9.19		7.36	6.48
Number dying on 7th day	27	6	32	12	8th day	73	52	After 28th day	50	29	12 to 18 months	290	306
Percentages	6.87	7.14	13.44	10.08		7.79	3.80		11.68	9.86		16.42	15.49
Number dying on the 8th and 9th days.	23	7	26	6	9th and 10th days.	136	140	On 10th day	23	16	18 to 24 months	112	48
Percentages	5.85	8.33	10.92	5.04		14.51	10.22		5.37	5.44		6.34	2.43
Number dying on 10th day ..	29	5	5	12	11th to 16th days, inclusive.	164	317	14th day	52	45	Over 2 years	324	167
Percentages	7.38	5.95	2.10	10.08		17.50	23.14		12.15	15.31		18.35	8.46
Number dying on 11th to 14th days, inclusive.	42	12	12	42	15th to 21st days, inclusive.	75	200	21st day	54	39			
Percentages	10.69	14.28	5.04	35.29		8.00	14.60		12.62	13.26			
Number dying after 14th day.	64	21	21	18	After 21st day	73	162						
Percentages	16.28	25.00	8.83	15.12		7.79	11.83						

TABLE XXX.—DEATHS.—*Deaths from phthisis pulmonalis, September* 1, 1874, *to June* 30, 1880.

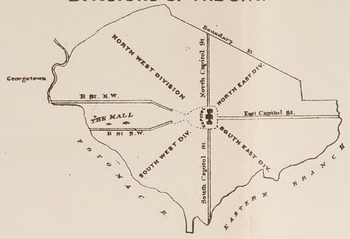
Ages, color, and sex.	District of Columbia.			New England.			Middle States.			West Virginia, Virginia, and Maryland.			Other parts of the United States.			Ireland.			England, Scotland, and Wales.			Germany, Austria, and Holland.			All other countries and unknown.			Total.		
	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.
Under 20 years:																														
White, male	53	....	5	1	....	....	5	....	....	13	....	1	5	....	....	4	....	....	....	....	....	1	....	....	1	....	....	83	....	6
female	91	....	3	1	....	1	8	....	....	17	....	....	2	....	....	3	....	....	....	....	....	....	....	....	.....	....	....	122	....	4
Colored, male	235	....	6	1	....	1	1	....	....	69	....	3	2	....	1	.....	....	....	....	....	....	....	....	....	.....	....	....	308	....	11
female	316	....	4	3	....	....	2	....	....	136	....	4	9	....	....	.....	....	....	....	....	....	....	....	....	1	....	....	461	....	8
20 to 30 years:																														
White, male	110	1	6	5	....	....	29	1	1	43	....	1	19	2	2	20	3	....	2	....	....	9	1	1	8	2	....	245	10	11
female	135	....	5	9	....	....	24	....	1	72	....	....	22	1	....	20	....	....	2	....	....	4	....	....	3	....	....	291	1	6
Colored, male	39	....	1	2	....	....	3	....	....	174	1	11	10	....	....	.....	....	....	....	....	....	....	....	....	1	....	....	229	1	12
female	71	....	6	....	....	....	1	....	....	257	2	15	8	....	....	.....	....	....	....	....	....	....	....	....	1	....	....	338	2	21
30 to 40 years:																														
White, male	62	....	4	14	3	....	41	5	2	44	....	3	23	2	2	46	10	1	11	....	2	15	9	....	5	1	1	261	30	15
female	50	1	1	5	....	....	24	....	2	67	....	....	12	....	2	35	....	....	7	....	....	16	....	....	8	....	....	224	1	5
Colored, male	31	....	4	1	....	1	3	....	....	117	1	10	11	....	1	.....	....	....	....	....	....	....	....	....	.....	....	....	163	1	16
female	26	....	3	....	....	....	2	....	....	166	2	10	5	....	....	.....	....	....	....	....	....	....	....	....	.....	....	....	199	2	13
40 to 50 years:																														
White, male	42	....	1	13	....	1	26	2	2	32	....	..	13	3	1	33	1	2	13	...	3	22	2	5	6	....	...	200	8	15
female	29	....	....	8	....	....	8	1	....	46	....	3	7	....	1	33	1	....	1	....	....	4	....	....	1	....	....	137	2	4
Colored, male	11	....	2	....	....	....	.....	....	....	84	....	9	6	....	1	.....	....	....	....	....	....	....	....	....	.....	....	....	101	....	12
female	26	....	....	....	....	....	.....	....	....	90	1	2	6	....	2	.....	....	....	....	....	....	....	....	....	.....	....	....	122	1	4
50 to 60 years:																														
White, male	12	1	....	7	....	....	10	....	....	17	....	....	2	....	1	26	1	....	5	...	....	18	1	....	4	....	....	101	3	1
female	14	1	1	1	....	....	4	1	....	30	....	3	4	....	....	22	....	....	2	....	....	4	....	....	1	....	....	82	2	4
Colored, male	8	....	1	....	....	....	.....	....	....	68	1	5	4	....	....	.....	....	....	....	....	....	....	....	....	.....	....	....	80	1	6
female	5	1	2	....	....	....	.....	....	....	52	...	5	2	....	....	.....	....	....	....	....	....	....	....	....	.....	....	....	59	1	7
60 to 70 years:																														
White, male	7	....	....	5	....	....	10	....	1	20	....	....	3	....	....	17	....	....	4	....	1	5	1	....	1	....	1	72	1	3
female	9	....	....	4	....	....	2	....	....	24	....	1	1	....	....	9	....	....	4	....	....	3	....	....	1	....	....	57	....	1
Colored, male	.....	....	....	....	....	....	.....	....	....	31	....	3	.....	....	....	.....	....	....	....	....	....	....	....	....	.....	....	....	31	....	3
female	10	1	....	1	....	....	.....	....	....	29	....	....	.....	....	....	.....	....	....	....	....	....	....	....	....	.....	....	....	40	1	2

TABLE XXX.—DEATHS.—*Deaths from phthisis pulmonalis, September* 1, 1874, *to June* 30, 1880—Continued.

Ages, color, and sex.	District of Columbia.			New England.			Middle States.			West Virginia, Virginia, and Maryland.			Other parts of the United States.			Ireland.			England, Scotland, and Wales.			Germany, Austria, and Holland.			All other countries and unknown.			Total.		
	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.	Number of deaths.	Number of insane.	Number complicated with hemorrhage.
70 to 80 years:																														
White, male				4			2			5			1			6			1						2		1	21		1
female	3						4			16		1	1			1			2			1			1			29		1
Colored, male										15			1															16		
female	1									24		1																25		1
80 years and over:																														
White, male										2																		2		
female	1						1			2						2												6		
Colored, male										6																		6		
female										8		2																8		2
Total white males	286	2	16	49	3	1	123	8	6	176		5	66	7	6	152	15	3	36		6	70	14	6	27	3	3	985	52	52
Total white females	332	2	10	28		1	75	2	3	274		8	49	1	3	125	1		18			32			15			948	6	25
Total colored males	324		14	4		2	7			564	3	41	34		3										1			934	3	60
Total colored females	455	2	17	4			5			756	5	39	30		2										2			1,252	7	58

Map
of
WASHINGTON and GEORGETOWN

Diagram showing the
DIVISIONS OF THE CITY.



EXPLANATIONS.

Phthisis Pulmonalis.	White.	●
	Colored.	●
Pneumonia.	White.	■
	Colored.	■
Other Surf. Dis. of Lungs.	White.	×
	Colored.	×

Houses are numbered 100 or less to the Block, thus 625 E. St. is bet. 6th & 7th Sts. & 1850 Penn. Ave. is bet. 18th & 19th. Lettered Sts. in the same manner. All numbering commences at the Capital.

TABLE XXXI.—DEATHS.—*Deaths from phthisis pulmonalis, and total deaths from all causes, September 1, 1874, to June 30, 1880.*

Ages.	White.								Colored.							
	Males.				Females.				Males.				Females.			
	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Total deaths from all causes.	Percentage of deaths from phthisis to total deaths, by ages.	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Total deaths from all causes.	Percentage of deaths from phthisis to total deaths, by ages.	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Total deaths from all causes.	Percentage of deaths from phthisis to total deaths, by ages.	Deaths from phthisis pulmonalis.	Percentage to total deaths from phthisis.	Total deaths from all causes.	Percentage of deaths from phthisis to total deaths, by ages.
Under 5 years of age	29	2.94	2,473	1.17	33	3.48	2,380	1.34	180	19.27	3,497	5.15	202	16.13	3,196	6.32
5 to 10 years	8	.81	276	2.90	3	.32	272	1.10	43	4.60	231	18.61	61	4.88	280	21.80
10 to 20 years	46	4.67	275	16.73	86	9.07	263	32.70	85	9.10	241	35.19	198	15.81	371	53.37
20 to 30 years	245	24.87	472	51.91	291	30.70	552	52.72	229	24.52	439	52.16	338	27.00	565	59.84
30 to 40 years	261	26.50	652	40.03	224	23.63	540	41.48	163	17.45	357	45.66	199	15.89	458	43.45
40 to 50 years	200	20.30	690	28.99	137	14.45	452	30.31	101	10.81	311	32.48	122	9.74	269	41.60
50 to 60 years	101	10.25	574	17.79	82	8.65	425	19.29	80	8.57	273	29.30	59	4.71	248	23.79
60 to 70 years	72	7.31	550	13.09	57	6.01	422	13.51	31	3.32	205	15.12	40	3.19	242	16.53
70 to 80 years	21	2.13	392	5.36	29	3.06	412	7.02	16	1.71	197	8.12	25	2.00	262	9.54
80 years and over	2	.20	162	1.24	6	.63	232	2.59	6	.64	149	4.03	8	.64	261	3.07
Total	985	100.00	6,516	15.505	948	100.00	5,951	15.913	934	100.00	5,900	15.830	1,252	100.00	6,152	20.351
Total from phthisis, by color	1,933								2,186							
Mean annual death-rate from phthisis, by color	2.762								6.416							
Total from all causes, by color	12,467								12,052							
Mean annual death-rate from all causes, by color	17.812								35.372							

TABLE XXXII.—DEATHS.—*Deaths of white persons from phthisis pulmonalis, with percentage to total deaths from all causes, September 1, 1874, to June 30, 1880.*

Ages.	District of Columbia.	New England.	Middle States.	Virginia, Maryland, and West Virginia.	Other parts of the United States.	Ireland.	England, Scotland, and Wales.	Germany, Austria, and Holland.	All other countries.	Total for natives of the United States.	Total for natives of foreign countries.
Under 20 years of age	2.73	8.00	10.83	9.32	5.69	35.00	.....	10.00	.....	3.32	20.00
20 to 30 years	56.58	45.16	52.47	50.66	43.66	54.05	28.57	31.71	50.00	53.61	45.03
30 to 40 years	41.48	42.22	38.32	43.70	39.33	40.10	45.00	33.70	36.11	41.45	38.92
40 to 50 years	38.59	36.21	23.61	33.77	28.99	27.61	32.56	18.84	21.88	32.65	25.00
50 to 60 years	20.69	15.09	12.17	18.22	14.29	22.33	16.28	19.13	17.24	16.64	20.90
60 to 70 years	13.80	14.29	8.70	15.44	10.53	14.05	19.51	9.64	8.69	13.28	13.25
70 to 80 years	3.57	7.02	5.31	7.34	9.09	5.88	7.67	1.54	15.00	6.51	5.35
80 years and over	4.00	.....	3.33	2.55	.....	2.47	.....	.....	.....	2.33	1.46
Percentage of deaths from phthisis to total deaths	9.44	20.75	21.11	22.66	25.00	24.41	21.34	18.12	23.20	14.11	22.75

TABLE XXXIII.—DEATHS.—*Deaths from cancers classified. September* 1, 1874, *to June* 30, 1880.

Cancer of—	Under 20 years.				20 to 30 years.				30 to 40 years.				40 to 50 years.				50 years and over.				Totals.				Total.	Percentage to total deaths from cancer.
	White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.		White.		Colored.			
	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.	Male.	Female.		
Breast	....	....	....	....	....	1	....	....	....	3	....	....	....	12	....	2	....	24	....	13	.....	40	.....	15	55	13.61
Uterus	....	....	....	....	....	2	....	2	....	15	....	9	....	22	....	9	....	33	....	25	.....	72	.....	45	117	28.96
Stomach	....	....	....	....	1	2	2	....	....	2	....	1	4	4	2	....	26	15	2	10	31	23	6	11	71	17.57
Liver	....	....	....	....	....	....	....	....	....	2	1	4	1	4	....	....	5	5	2	....	6	11	3	4	24	5.94
Ovary	....	....	....	....	....	....	....	....	....	2	....	....	....	2	....	....	....	4	....	1	.....	8	.....	1	9	2.23
Face	1	....	....	....	....	....	....	....	8	....	1	....	8	....	1	....	7	10	1	3	24	10	3	3	40	9.90
Mouth	....	....	1	....	....	....	....	....	....	1	....	....	....	1	....	....	6	2	....	1	6	4	1	1	12	2.97
Neck	....	....	....	....	....	....	....	....	3	....	....	1	3	....	1	....	....	2	....	....	6	2	1	1	10	2.48
Abdominal organs	1	2	....	....	....	1	1	1	2	2	1	1	2	2	1	1	4	7	1	4	9	14	4	7	34	8.42
All others	....	1	1	....	1	2	1	....	....	....	....	2	1	2	....	2	6	10	3	....	8	15	5	4	32	7.92
Totals	2	3	2	....	2	8	4	3	13	27	3	18	19	49	5	14	54	112	9	57	90	199	23	92	404	100.00

TABLE XXXIV.—*Deaths from cancers, by ages, September* 1, 1874 *to June* 30, 1880.

Ages.	White.				Colored.			
	Male.		Female.		Male.		Female.	
	Deaths from cancer.	Percentage to total deaths of white males from cancer.	Deaths from cancer.	Percentage to total deaths of white females from cancer.	Deaths from cancer.	Percentage to total deaths of colored males from cancer.	Deaths from cancer.	Percentage to total deaths of colored females from cancer.
Under 20 years of age	2	2.22	3	1.51	2	8.69	.....	.....
20 to 30 years	2	2.22	8	4.02	4	17.39	3	3.26
30 to 40 years	13	14.45	27	13.57	3	13.05	18	19.56
40 to 50 years	19	21.11	49	24.62	5	21.74	14	15.22
50 years and over	54	60.00	112	56.28	9	39.13	57	61.96
Total	90	100.00	199	100.00	23	100.00	92	100.00
Percentage to total deaths by sex	1.381	.....	3.344	.....	0.390	.....	1.495	.....
Total deaths by color	289				115			
Percentage to total deaths by color	2.318				0.954			

TABLE XXXV.—*Deaths from cancers among white females, September* 1, 1874, *to June* 30, 1880.

Cancers of—	Married.		Widows.		Single.		Total.	Percentage to total deaths from cancer.
	Deaths from cancer.	Percentage to total deaths of married from cancer.	Deaths from cancer.	Percentage to total deaths of widows from cancer.	Deaths from cancer.	Percentage to total deaths of single from cancer.		
Breast	20	17.54	12	21.43	8	27.59	40	20.10
Uterus	47	41.23	22	39.29	3	10.34	72	36.18
Ovary	7	6.14	.....	.....	.....	.....	7	3.52
Stomach	11	9.65	6	10.71	6	20.69	23	11.56
Liver	5	4.39	4	7.15	2	6.90	11	5.52
Face	5	4.39	4	7.15	1	3.45	10	5.04
Mouth	2	1.75	1	1.79	.....	.....	3	1.51
Neck	2	1.75	.....	.....	.....	.....	2	1.00
Abdominal organs	7	6.14	3	5.36	5	17.24	15	7.53
All others	8	7.02	4	7.15	4	13.79	16	8.04
Total	114	100.00	56	100.00	29	100.00	199	100.00
*Percentage to total number of married, widows, and single, dying of all diseases	8.370	.....	5.059	.....	†4.693	.....	†6.492	.....

* All under 20 years of age are excluded.
† Three, single, and under 20 years of age, are not included in these two percentages.

TABLE XXXVI.—DEATHS.—*Deaths from cancer among colored females, September* 1, 1874, *to June* 30, 1880.

Cancers of—	Married.		Widows.		Single.		Total.	Percentage to total deaths from cancer.
	Deaths from cancer.	Percentage to total deaths of married from cancer.	Deaths from cancer.	Percentage to total deaths of widows from cancer.	Deaths from cancer.	Percentage to total deaths of single from cancer.		
Breast	5	14.71	10	20.83	.....	.....	15	17.05
Uterus	19	55.88	23	47.92	3	50.00	45	51.14
Ovary	.....	.....	1	2.08	.....	.....	1	1.14
Stomach	1	2.94	9	18.75	1	16.67	11	12.50
Liver	.....	.....	.....	.....	.....	.....	.....	.....
Face	1	2.94	1	2.08	1	16.67	3	3.41
Mouth	1	2.94	.....	.....	.....	.....	1	1.14
Neck	.....	.....	1	2.08	.....	.....	1	1.14
Abdominal organs	4	11.77	2	4.17	1	16.67	7	7.95
All others	3	8.83	1	2.08	.....	.....	4	4.54
Total	34	100.00	48	100.00	6	100.00	88	100.00
Percentage to total number of married, widows, and single, dying of all diseases.*	3.527	.....	5.369	.....	1.429	.....	3.863	.....

* All under 20 years of age are excluded.

TABLE XXXVII.—*Statement exhibiting in a small compass the number of decedents from cancer, showing color, sex, age, number of total deaths from all causes to* 1 *from cancer, and number of deaths from cancer to each* 1,000 *deaths from all causes.*

Color and sex.	Under 20 years.			20 to 30 years.				30 to 40 years.			
	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Number deaths from cancer to every 1,000 deaths.	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Number deaths from cancer to every 1,000 deaths.
White males	3,024	2	1,512	472	2	236	4.2	652	13	50	20.
White females	2,915	3	972	552	8	69	14.5	540	27	20	50.
Total white	5,939	5	1,188	1,024	10	102	9.8	1,192	40	30	33.3
Colored males	3,969	2	1,988	439	4	110	9.1	357	3	119	8.4
Colored females	3,847	.....	.....	565	3	188	5.3	458	18	25	40.
Total colored	7,816	2	3,908	1,004	7	143	7.	815	21	39	25.7
Grand total	13,755	7	1,965	2,028	17	119	8.4	2,007	61	33	31.3

TABLE XXXVII.—*Statement exhibiting in a small compass the number of decedents from cancer, showing color, sex, age, number of total deaths from all causes to* 1 *from cancer, and number of deaths from cancer to each* 1,000 *deaths from all causes.*—Continued.

Color and sex.	40 to 50 years.				50 years and over.			
	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Number deaths from cancer to every 1,000 deaths.	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Number deaths from cancer to every 1,000 deaths.
White males	690	19	36.	28.	1,678	54	31.	32. 3
White females	452	49	9. 2	108. 7	1,492	112	13. 3	75. 1
Total white	1,142	68	17.	58. 8	3. 170	166	19. 1	52. 4
Colored males	311	5	62.	16. 1	824	9	92.	10. 9
Colored females	269	14	19.	52. 6	1, 013	57	17. 8	56. 2
Total colored	580	19	30. 5	32. 8	1, 837	66	27. 8	36.
Grand total	1, 722	87	19. 8	50. 5	5, 007	232	21: 6	46. 3

Color and sex.	All ages.				20 years and over.			
	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Number deaths from cancer to every 1,000 deaths.	Total deaths.	Deaths from cancer.	Number of total deaths to 1 from cancer.	Number deaths from cancer to every 1,000 deaths.
White males	6, 516	90	72. 4	13. 8	3, 492	88	39. 7	25. 2
White females	5, 951	199	29. 9	33. 5	3, 036	196	15. 4	64. 9
Total white	12, 467	289	43. 6	22. 7	6, 528	284	23.	43. 5
Colored males	5, 900	23	257.	3. 89	1, 931	21	96. 6	10. 4
Colored females	6, 152	92	66. 9	14. 95	2, 305	92	25.	40.
Total colored	12, 052	115	104. 8	9. 54	4, 236	113	37. 8	26. 5
Grand total	24, 519	404	60. 69	16. 47	10, 764	397	27. 13	36. 9

List of registered physicians.

Name.	Residence.	Name.	Residence.
Adams, E. A	422 8th st., s. e.	Colesberry, W. H	723 14th st., n. w.
Adams, A. C	709 11th st., n. w.	Corey, Waterman F	906 French st., n. w.
Adams, J. Lee	1335 E st., s. e.	Cook, Samuel L. C	1537 K st., n. w.
Adams, B. B	1616 7th st., n. w.	Chew, Thomas J	1210 31st st., n. w.
Adams, Samuel S	831 14th st., n. w.	Duhamel, W. J. C	338 Indiana av., n. w.
Adams, M. P	1602 8th st., n. w.	Dorsey, T. Graham	400 B st., s. e.
Appleby, J. F. R	63 Market st., Georgetown.	Dorsey, Lloyd	1022 9th st., n. w.
		Dexter, J. E	453 C st., n. w.
Allen, Charles	415 7th st., s. w.	Darling, Henry	Brightwood.
Augusta, A. T	1319 L st., n. w.	De Meza, M. M	927 9th st., n. w.
Ashford, F. A	1330 New York av., n. w.	Dailey, O. A	1302 R st., n. w.
Abert, Charles	515 10th st., n. w.	Dovilliers, L. V	1221 13th st., n. w.
Acker, George N	1403 New York av., n. w.	Dyrenforth, R. G	1418 U st., n. w.
Antisell, Thomas	1311 Q st., n. w.	Duvall, W. T. S	1119 10th st., n. w.
Armstrong, William J	1629 Conn. av., n. w.	Dooley, F. X	301 Penn. av., s. e.
Bliss, D. W	1329 F st., n. w.	Dyer, John I	413 12th st., n. w.
Bogan, S. W	421 G st., n. w.	Duncan, E. A	230 1st st., n. e.
Brackett, John E	31 B st., s. e.	Dufour, J. F. R	1814 14th st., n. w.
Bond, Samuel S	813 1st st., n. w.	Dare, John	221 A st., s. e.
Blair, David	1618 14th st., n. w.	Deeble, H. M	87 West st., Georgetown.
Borrows, Joseph	921 E st., n. w.		
Behrend, A	709 H st., n. w.	Dixon, William S	18th and K sts., n. w.
Beall, B. M	941 R. I. av., n. w.	Eliot, Johnson	510 E st., n. w.
Bruckheimer, M	240 4½ st., s. w.	Eliot, J. Llewellin	Washington Asylum.
Bushnell, J. H	923 10th st., n. w.	Evans, Warwick	1027 9th st., n. w.
Boarman, C. V	1114 Md. av., s. w.	Edson, Susan A	1308 I st., n. w.
Bowen, Charles H	601 Mass. av., n. w.	Eversfield, W. O	1529 14th st., n. w.
Baxter, J. H	1504 H st., n. w.	Ellzey, M. G	926 N. Y. ave.
Baldwin, W. O	1915 Pa. av., n.w.	Fisher, Samuel B	321 East Capitol st.
Bray, John	5th st., between H and I, n. e.	Franzoni, C. W	808 H st., n. w.
		Fenwick, G P	405 7th st., s. w.
Beale, J. S	206 Pa. av., s. e.	Fisher, G. W	Uniontown.
Barnes, J. D	2136 Pa. av., n. w.	Ford, C. M	150 Pa. av., s. e.
Barker, H. H	1019 F st., n. w.	French, R. D. De L	1336 T st., n. w.
Bulkley, J. W	615 11th st., n. w.	Foster, R. A	24 I st., n. e.
Briscoe, W. C	317 C st., n. w.	Foster, Frank J	2321 I st., n. w.
Busey, S. C	1525 I st., n. w.	Fry, Henry D	1209 G st., n. w.
Baxter, J. B. G	706 H st., n. e.	Francis, John D	212 G st., n. w.
Bird, James C	1325 F st., n. w.	Freeman, J. R	1207 G st., n. w.
Bogue, A. P	Bureau of Education.	Ferry, L. A	1313 Corcoran st., n. w.
Bogan, M. V. B	604 Mass. av., n. w.	Fisher, John C	1421 G st., n. w.
Bigelow, J. R	931 G st., n. w.	Gleeson, J. K. P	1227 N st., n. w.
Bailache, P. H	1316 R st., n. w.	Gibbs, Thomas F	935 Rhode Isl'd av., n. w.
Boldemann, Theodore	822 8th st., n. w.	Groot, S. I	924 New York av., n. w.
Byrnes, J. C	1410 6th st., n. w.	Glennan, P	Cor. New Jersey av. and Boundary.
Ball, Charles A	233 G st., n. w.		
Burghardt, Caroline A	938 H st., n. w.	Garnett, A. Y. P	1317 New York av., n. w.
Byrns, William F	217 Delaware av., n. e.	Grinsted, William	637 9th st., n. e.
Bettes, Eugene	517 20th st., n. w.	Gross, George	311 East Capitol st.
Bayne, John W	328 East Capitol st.	Griffith, M. J	1401 5th st., n. w.
Bigelow, Horatio R	1502 14th st., n. w.	Gilpin, George E	Tennallytown.
Bassett, Simpson	615 A st., n. e.	Godding, W. W	Insane Asylum.
Balloch, Edward A	7th st. road, county.	Geiseking, H. N	615 Louisiana av., n. w.
Budd, Samuel W	1321 F st., n. w.	Garrettson, Frederick	425 9th st., n. w.
Binns, Douglas	1014 F st., n. w.	Graham, N. F	Pension Office.
Baldwin, L. B	U. S. Naval Hospital.	Goodman, William R	216 13½ st., s. w.
Boyd, J. C	U. S. Naval Hospital.	Gilbert, Charles B	1104 F st., n. w.
Burnett, Swan M	1215 I st., n. w.	Hagner, Daniel R	1814 H st., n. w.
Budlong, Orsie W	629½ F st., s. w.	Harris, J. D	7th and Boundary, n. w.
Baker, Frank	326 C st., n. w.	Harris, J. O	929 L st., n. w.
Callan, C. V. N	1422 F st., n. w.	Herbert, J. Welis	205 H st., n. w.
Christie, Arthur	615 Pa. av., s. e.	Herbert, J. William	Marine Barracks.
Crew, S. B	146 6th st., s. w.	Hazen, D. H	601 G st., s. w.
Cragin, Charles H	124 Dumbarton st., Georgetown.	Hazen, W. P. C	511 East Capitol st.
		Hudson, W. L	61 H st., n. w.
Calvert, Edward H	62 Defrees st., n. w.	Hammett, C. M	644 F st., s. w.
Crouse, J. L.	1139 10th st., n. w.	Hartigan, J. F	1125 14th st., n. w.
Cox, Christopher C		Huntoon, A. J	Third Auditor's Office.
Cowling, William W	Brightwood.	Howard, Joseph T	1126 9th st., n. w.
Croumbe, John T	1304 9th st., n. w.	Howard, F	1019 F st., n. w.
Corbin E. L	603 Louisiana av., n. w.	Howard, H. N	918 Mass. av., n. w.
Craig, B. F	1812 I st., n. w.	Hopkins, G. N	1617 Conn. av., n. w.
Cull, Abner H	611 H st., n. w.	Hagner, Charles E	944 L st., n. w.
Chase, Robert H	Insane Asylum.	Hyatt, Frank	1224 1 st., n. w.
Connell, B. F	76 Bridge st., Georgetown.	Hansmann, Theodore	724 13th st., n. w.
		Hatch, Horace	1323 F st., n. w.
Carpenter, J. E	104 C st., n. e.	Hood, T. B	1009 O st., n. w.
Custis, J. B. G	604 East Capitol st.	Herndon, D	1441 Corcoran st., n. w.
Caldwell, C. T	1823 12th st., n. w.	Hoover, C. A	1222 6th st., n. w.
Cook, G. Wythe	1502 S st., n. w.	Herron, Charles S	1230 5th st., n. w.
Crook, Harrison	424 7th st., s. w.	Houston, Samuel	1417 Columbia st., n. w.

List of registered physicians—Continued.

Name.	Residence.	Name.	Residence.
Hillyer, Frances S	Room 34, P. O. Dept.	McVay, Stephen A	14th and L sts., n. w.
Hadfield, George	1333 F st., n. w.	Maddox, W. R	Georgetown.
Henry, William S. B	941 H st., n. w.	Muhleman, S. A	723 6th st., n. w.
Hartwell, J. B	1303 S st., n. w.	Newton, Lewis E	413 L st., n. w.
Heller, P. H	217 6th st., n. w.	Naylor, William L	456 M st., n. w.
Herron, George H	1328 6th st., n. w.	Newman, W. G. H	2403 Pa. av., n. w.
Harrison, J. S	1911 I st., n. w.	Newman, H. M	Do.
Heath, W. H	1421 G st., n. w.	Norris, Basil	1829 G st., n. w.
Hoff, L. B	1509 H st., n. w.	Neale, Richard A	1252 7th st., n. w.
Hoehling, Adolph A	424 East Capitol st.	Nourse, jr., Charles H	Cor. Mass. av. and 10th st., n. w.
Hassler, F. A	917 E st., n. w.		
Hart, Mary E	939 H st., n. w.	Okie, W. T	1210 G st., n. w.
Hamilton, John B	1421 G st., n. w.	Owens, Thomas	1025 17th st., n. w.
Hoffman, W. J	222 E st., n. w.	O'Conner, Frank J	802 6th st., s. w.
Harrison, George B	1345 F st., n. w.	Patterson, D. C. (coroner)	919 I st., n. w.
Johnson, A. E	101 B st., s. e.	Porter, H. T	17 Bridge st., Georgetown.
Johnson, Dallas	825 New Jersey av., n. w.		
Johnson, J. Tabor	937 New York av., n. w.	Palmer, W. G	929 H st., n. w.
Johnston, W. W	H and 15th sts., n. w.	Palmer, G. S	1113 Mass. av., n. w.
Johnson, J. B	922 New York av., n. w.	Purvis, C. B	1118 13th st., n. w.
Julihn, M. L	7th and B sts., s. w.	Pope, G. W	1334 I st., n. w.
Johnston, G. F	420 E st., n. w.	Parsons, Mary A	724 11th st., n. w.
Jackson, W. W	920 F st., n. w	Parsons, John	1512 9th st., n. w.
Jones, H	462 Louisiana av., n. w.	Prentiss, D. W	1224 9th st., n. w.
Joyce, J. W	912 I st., n. w.	Prentiss, C. E	212 6th st., s. e.
Keech, Thomas A. R	418 C st., s. e.	Peter, Armstead	3112 O st., n. w.
King, A. F. A	726 13th st., n. w.	Poulton, W. E	426 4½ st., s. w.
Kleinschmidt, C. H. A	3113 N st., n. w.	Patze, A	311 Pa av., n. w.
Kelly, Daniel J	2628 K st., n. w.	Pearson, C	1208 G st., n. w.
Kidder, J. H	Smithsonian Institut'n.	Parkinson, C	1003 O st., n. w.
Ketcham, O. C	37 C st., n. e.	Penrod, Hiram J	1635 Conn. av., n. w.
Kellogg, George	1416 Q st., n. w.	Pittis, William	1441 T st., n. w.
Lamb, D. S	1324 V st., n. w.	Porter, H. C	3145 P. st., n. w.
Landers, Thomas	Pension Office.	Parker, J. M	Oxen Hill, Md.
Leach, H. E	233 7th st., s. w.	Parker, C. F	1011 7th st., n. w.
Lincoln, N. S	1514 H st., n. w.	Pool, B. G	Barnes Hospital.
Little, J. W	Anacostia.	Richings, H	608 14th st., n. w.
Lee, William	2111 Pa. av., n. w.	Rauterberg, Charles	215 3d st., n. w.
Lieberman, C. H	722 12th st., n. w.	Rauterberg, L. E	Do.
Lovejoy, J. W. H	900 12th st., n. w.	Reyburn, Robert	2129 F st., n. w.
Lawver, W. P	1912 I st., n. w.	Reily, James R	221 4½ st., s. w.
Lindsly, Harvey	824 Conn. av., n. w.	Ross, William H	1019 F st., n. w.
Little, J. J	1407 L st., n. w.	Ritchie, Joshua N	3259 N st., n. w.
Loomis, L. C	P. O. box 307.	Ritchie, Louis W	Do.
Loguen, Sarah M	2002 17th st., n. w.	Roberts, W. E	715 G st., s. e.
Latimer, George	1604 7th st., n. w.	Radcliffe, S. J	1211 F st., n. w.
Le Conte, John N	907 T st., n. w.	Russell, W. R	1424 L st., n. w.
Long, Owen M	1446 N st., n. w.	Raines, Webster M	416 10th st., n. w.
Mead, Theodore	902 22d st., n. w.	Reynolds, W. B	U. S. Naval Hospital.
Moore, J. B	1924 Pa. av., n. w.	Ravenberg, R	1473 T st., n. w.
McKim, S. A. H	25 5th st., s. e.	Rosse, Irving C	1106 F st., n. w.
Morgan, J. E	905 E st., n. w.	Reid, Louis H	506 K st., n. w.
Morgan, E. C	916 E st., n. w.	Rogers, A. P	301 L st., s. e.
Magruder, G. L	310 E st., n. w.	Roberts, Grace	204 5th st., s. e.
Mundell, John H	1022 18th st., n. w.	Rice, Nathan E	1529 14th st., n. w.
Melvin, M. B	721 4½ st., s. w.	Spackman, Mary D	1634 16th st., n. w.
Mauss, R. G	1701 6th st., n. w.	Stanton, J. O	1344 G st., n. w.
Meriam, E. C	622 New Jersey av., n. w.	Stone, C. G	Brightwood.
Marmion, W. V	1106 F st., n. w.	Sumby, S. A	513 3d st., s, w.
Muncaster, O. M	1405 New York av., n. w.	Suddarth, J. L	2 I st., n. e.
McWilliams, A	607 4½ st., s. w	Stearns, S. S	924 P st., n. w.
Murphy, P. J	Columbia Hospital.	Sothoron, James T	1919 I st., n. w.
Mackall, Louis, jr	71 Dunbarton st., Georgetown.	Samson, George C	2419 Pa. av., n. w.
		Sonnenschmidt, C. W	626 E st., n. w.
Mackall, J. McV	3127 M st., n. w.	Street, D. B	805 H st., n. e.
McBlair, J. H	2029 I st., n. w.	Sowers, Z. T	1324 N. Y. av., n. w.
Mason, John Edwin	220 I st., n. w.	Shekell, A. B	1529 32d st., n. w.
Maxwell, Charles D	1716 I st., n. w.	Smith, Thomas C	1133 12th st., n. w.
Marr, S. S	1415 10th st., n. w.	Scholl, Joseph	615 D st., n. w.
McLeod, Wilfred	Cor. Frederick and Prospect sts., Georgetown.	Sweetman, J. T	1008 26th st., n. w.
		Sturgis, P. M	2 Congress st., Georgetown.
Morrell, W. H	Insane Asylum.		
McPherson, D. M	235 Pa. av., s. e.	Stephenson, Joseph G	1007 F st., n. w.
Marsteller, A. A	221 D st., n. w.	St. Clair, F. O	1428 R. I. av., n. w.
Massey, Thomas E	1218 Virginia av., s. w.	Schaeffer, E. M	1115 F st., n. w.
McLean, John W	1306 R st., n. w.	Sellhausen, E. A	636 G st., n. w.
McArdle, Thomas E	707 12th st., n. w.	Stratton, Jno. T	517 7th st., s. e.
Minnich, William H	1500 7th st., n. w.	Stevens, W. H	1311 H st., n. w.
McClurg, Walter A	U. S. Naval Hospital.	Suter, Henderson	1205 Potomac st., n. w.
Mallam, Thomas F	Children's Hospital.	Stack, M. J	Insane Asylum.
Mann, W. A	1003 K st., n. w.	Shirley, jr., C. B	1336 Q st., n. w.

List of registered physicians—Continued.

Name.	Residence.	Name.	Residence.
Stout, Alexander M	1137 24th st., n. w.	Van Vliet, F. C	819 15th st., n. w.
Swormstedt, L. B	1455 14th st., n. w.	Walsh, Jno. K	1111 13th st., n. w.
Shoulters, George H	1116 10th st., n. w.	Woodbury, H. E	912 12th st., n. w.
Tree, Charles M	514 12th st., n. w.	Ward, W. W	1931 Pa. av., n. w.
Townshend, Smith, health officer.	213 4½ st., n. w.	Walter, J	1010 F st., n. w.
		Williamson, A. N	602 11th st., n. w.
Thompson, J. Ford	1000 9th st., n. w.	Winter, Jno. T	1613 10th st., n. w.
Thompson, jr., J. Harry	1324 Mass av., n. w.	Watts, S. R	1018 19th st., n. w.
Turner, Thomas J	1227 M st., n. w.	Winslow, Caroline B	1 Grant Place.
Tarkington, J. A	217 D st., n. w.	Walsh, Ralph S. L	326 C st., n. w.
Torrey, Turner	Anacostia.	Wolhaupter, D. P	801 H st., n. w.
Taylor, William H	619 M st., n. w.	Waggaman, S. I	477 Pa. av., n. w.
Toner, J. M	615 La. av., n. w.	Wales, Philip S	813 Vt. av., n. w.
Triplett, W. H	----------	Wells, Charles A	Bladensburg, Md.
Tyler, W. Bowie	2918 P. st., n. w.	Wooley, G. W	708 9th st., n. e.
Tyler, Grafton	1300 30th st., n. w.	Witmer, A. H	Insane Asylum.
Taylor, L. M	701 M st., n. w.	Wallace, M. T	351 Pa. av., n. w.
Taulman, D. D	6th and G sts., n. w.	Walker, Mary E	Hillman House.
Trott, Thomas H	232 N. J. av., s. e.	Ward, E. J.	801 9th st., n. w.
Tebbs, A. Sydney	3300 M st., n. w.	White, James M	Brightwood.
Townsend, W. W	1901 Vt. av., n. w.	Young, Parke G	1258 8th st., n. w.
Verdi, T. S	815 14th st., n. w.	Young, Noble	344 Pa. av., n. w.
Van Arnum, J. W	1413 P st., n. w.	Young, James T	1336 N. Y. av., n. w.
Vowless, D. W	1031 8th st., n. w.	Yarrow, H. C	920 14th st., n. w.

ADDITIONS TO THE LIBRARY.

The following-named works, reports, and papers have been added to our library during the year:

Third Annual Report of the Board of Health of the City of Nashville, Tenn., 1878.

Summary of Observations prepared for the Thirty-seventh Registration Report of the Secretary of State of Massachusetts, 1879.

Report of the Health Officer of the City and County of San Francisco, Cal., 1879.

Dr. Blaxall's Report to the Local Government Board on the Sanitary Condition of Okehampton (Devon).

T. C. Langdon's Report to the Local Government Board of the Inspection of the Sanitary Condition of the Rural Sanitary District of Wells.

Dr. Horace Swete's Report to the Local Government Board on the Prevalence of Epidemic Diseases in the Urban Sanitary District of Crompton (Lancashire), and on the general sanitary condition of the district.

Mr. John Spear's Report to the Local Government Board upon the Prevalence of Scarlatina in the Yeadon Urban Sanitary District, and upon the general sanitary condition of that district.

Mr. John Spear's Report to the Local Government Board on the Sanitary Condition of the Urban Sanitary District of Quickmere.

Dr. W. Ogle's Report to the Local Government Board on the Prevalence of Diphtheria in the Llandausaint and the Holyhead Registration Subdistricts of the Holyhead Union, and on a recent outbreak of small-pox in the town of Holyhead.

Dr. W. Ogle's Report to the Local Government Board on the Prevalence of Scarlet Fever in the Pontypool Registration Subdistrict, and on the general sanitary condition of that subdistrict.

Medical and Surgical History of the War of the Rebellion, part 2, vol. 1. Medical volume.

Fifth Biennial Report of the State Board of Health of California, 1878 and 1879.

Annual Report of the Board of Health of the City of Pittsburgh for the year 1878.

Report of the Board of Health, Brooklyn, 1875 and 1876.

Laws and Ordinances relative to Health, &c., for the City of Saint Louis.

Dr. H. F. Parsons' Report to the Local Government Board on the General Sanitary Condition of Ince-in-Makerfield.

Dr. Thorne Thorne's Report to the Local Government Board on the General Sanitary Circumstances and Administration of the Rural Sanitary District of Dartford, and on an Outbreak of Diphtheria in the Parish of Swanscombe.

Dr. Airy's Report to the Local Government Board on an outbreak of Scarlatina at Fallowfield, near Manchester.

Dr. Blaxall's Report to the Local Government Board on the Sanitary Condition of the Rural Sanitary District of South Stoneham Hants.

Mr. W. H. Power's Report to the Local Government Board on Scarlatina Prevalence

in the Easington Rural Sanitary District and on Means for Isolation of Infectious Diseases available for use by the Rural Sanitary Authority.

The Sanitarian for December, 1879.

Second Annual Report of the State Board of Health of the State of Connecticut, 1879.

Quarterly Report of the Chief of the Bureau of Statistics, Treasury Department, relative to the Imports, Exports, Immigration, and Navigation of the United States for the three months ended September 30, 1879.

Annual Report of the Health Department of Baltimore, 1879.

Third Annual Report of the Board of Health of the State of New Jersey, 1879.

Second Annual Report of the Health Commissioner of Milwaukee, 1880.

Sanitary Engineering, second edition, North Carolina Board of Health, 1880.

The Proceedings of the Medical Society of the county of Kings, March, 1880.

Annual Report of the Board of Health of the State of Louisiana for the year 1879.

Annual Report of the Health Officer of the city of Yonkers, N. Y., 1879.

Fourth Annual Report of the Board of Health of the city of Utica, N. Y., 1879.

Seventh Annual Report of the Board of Health of the city of New Haven, 1879.

Report of the Directors of the Central Sanitary Bureau on Choleraic Diseases in Japan, 1877.

First and Second Annual Reports of the Central Sanitary Bureau of the Imperial Japanese Government, from July 1, 1875, to June 30, 1877.

Thirteenth Annual Report of the Health Department of Cincinnati, 1879.

First Annual Report of the Board of Health of the city of New Bedford, Mass., 1879.

Popular Science Monthly, vols. 16 and 17.

The Sanitarian, vol. 8.

Thirteenth Annual Report of the Board of Health of Dayton, Ohio, for 1879.

Twenty-sixth Registration Report of Rhode Island, 1878.

Annual Report of the Board of Health of the city of Indianapolis for 1879.

Annual Report of the Health Department of the city of Cleveland, 1879.

Annual Reports of city officers of Aurora, Ill., 1879 and 1880.

Reports of the Board of Health of the city of Reading, 1879.

Quarterly Report of the Chief of the Bureau of Statistics ending December 31, 1879.

Annual Report of Health Officer for the city of Philadelphia, 1879.

Second Annual Report of the State Board of Health of the State of Rhode Island for year ending December 31, 1879.

Report of the Board of Health and Vital Statistics of the county of Hudson, N. J., 1879.

Eleventh Report of State Board of Health of Massachusetts for six months ending June 30, 1879.

Eighth Annual Report of Local Government Board, 1878 and 1879, London, together with a supplement containing the report of the medical officer for 1878.

Dr. Ballard's Report to the Local Government Board on an outbreak of enteric fever at Talcarne Head, Newquay, Cornwall, and generally on the sanitary condition of the Urban Sanitary District of Newquay.

Dr. H. F. Parsons' Report to the Local Government Board on the sanitary condition of the Sutton Bridge Urban Sanitary District.

Dr. H. F. Parsons' Report on the general sanitary condition of the Bedlingtonshire Urban District and on the recent prevalence of scarlet fever in the district.

Mr. W. H. Powers' Report to the Local Government Board on an outbreak of "fever" that proved to be trichinosis on board the reformatory school-ship Cornwall.

Smithsonian Report, 1878.

Papers read before the Minnesota State Medical Society at its twelfth annual meeting, 1880.

Twenty-fifth Annual Report upon the births, marriages, and deaths in the city of Providence, 1879.

Annual Report of the city registrar of births, deaths, and marriages, Boston, 1879.

Regulations of the Board of Health of the city of Worcester, Mass., 1880.

Quarterly Report of the Chief of the Bureau of Statistics, Treasury Department, for three months ended June 30, 1879.

Quarterly Report of the Chief of the Bureau of Statistics, Treasury Department, three months ended March 31, 1880.

First Annual Report of State Board of Health, Lunacy, and Charity of Massachusetts, 1879.

Public Health Reports and Papers, vol. 5. Presented at the meetings of the American Public Health Association, 1879.

All of which is respectfully submitted.

SMITH TOWNSHEND, *M. D.*,
Health Officer, D. C.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

APPENDIX W 1.

ESTIMATES OF EXPENDITURES.

DISTRICT OF COLUMBIA, HEALTH DEPARTMENT,
Washington, September 15, 1880.

GENTLEMEN: Referring to your letters of July 14 and August 16, I would state, that owing to delay caused in waiting for official figures of population from the Superintendent of Census, and in consequence of the mass of tables on the subject of vital statistics to be compiled and compared, I find myself unable to present statement in detail, showing operations of this department for past year, at the present time.

The estimate of appropriations required to conduct the sanitary service, secure a full and correct record of vital statistics, &c., &c., is presented herewith, and in connection therewith I would invite your attention to two items, not included therein, the superintendence of which, however, comes under the health department. I refer to the *collection of garbage* and the provision of *medicines and medical attention for the sick poor.* I think a larger appropriation should be asked to enable us to have work in the former case properly performed, and in the latter case I would recommend that a specific appropriation of $8,000 be asked that this most important service may be placed on a proper footing and become more firmly established. Payments for this work are now made from general fund for relief of poor, and should that fund become exhausted, as has been the case heretofore, then this, the very first of charities, must cease, and the indigent sick of our District go without medicines and medical aid until Congress meets again and another appropriation can be secured. The following is the estimate of appropriations required to defray the expenses of conducting the sanitary service, to secure a full and correct record of vital statistics, and to prevent domestic animals from running at large in the District of Columbia during the fiscal year ending June 30, 1882:

For salary of health officer	$3,000
For six sanitary inspectors, at $1,200 each	7,200
For two food-inspectors, at $1,200 each	2,400
For clerks	7,000
For salary of pound-master	1,200
For salary of messenger	600
For contingent expenses, including books, stationery, fuel, rent, disinfectants, and miscellaneous items	3,800
Total	25,200

Very respectfully, &c.,

SMITH TOWNSHEND, M. D.,
Health Officer, District of Columbia.

The COMMISSIONERS OF THE DISTRICT OF COLUMBIA.

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